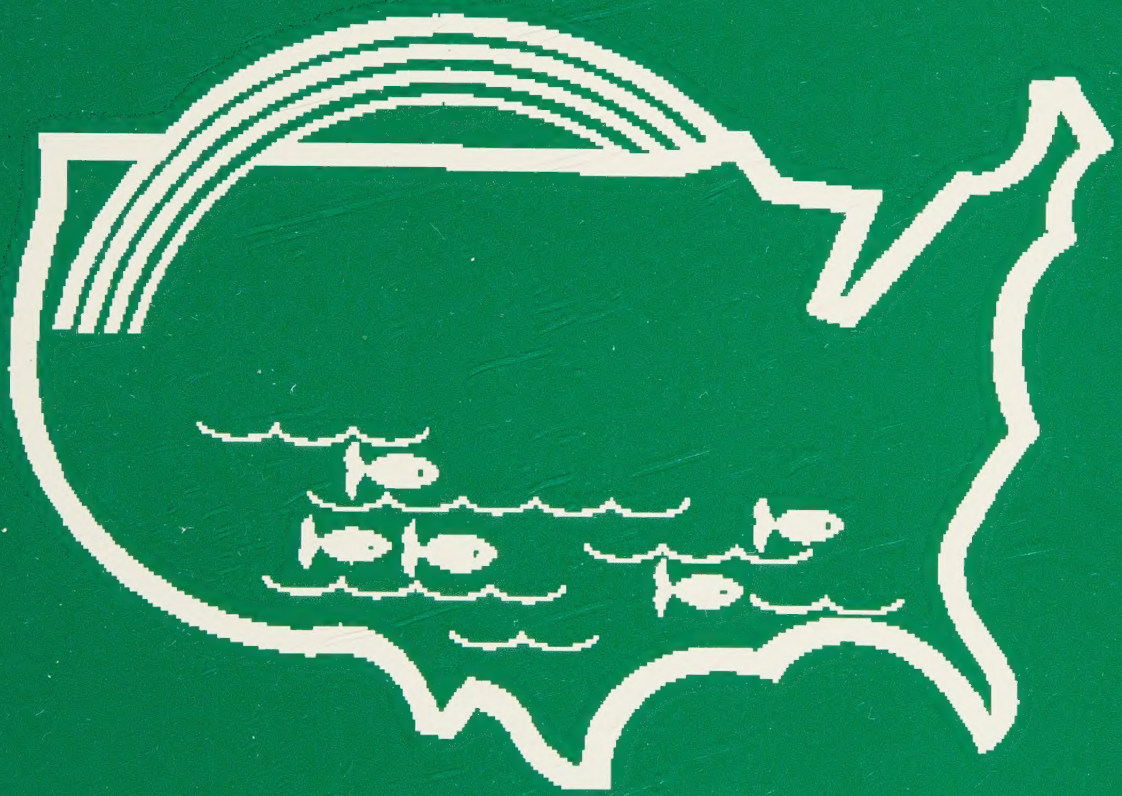
Current Fishery Statistics No. 9700

Fisheries of the United States, 1997

September 1998



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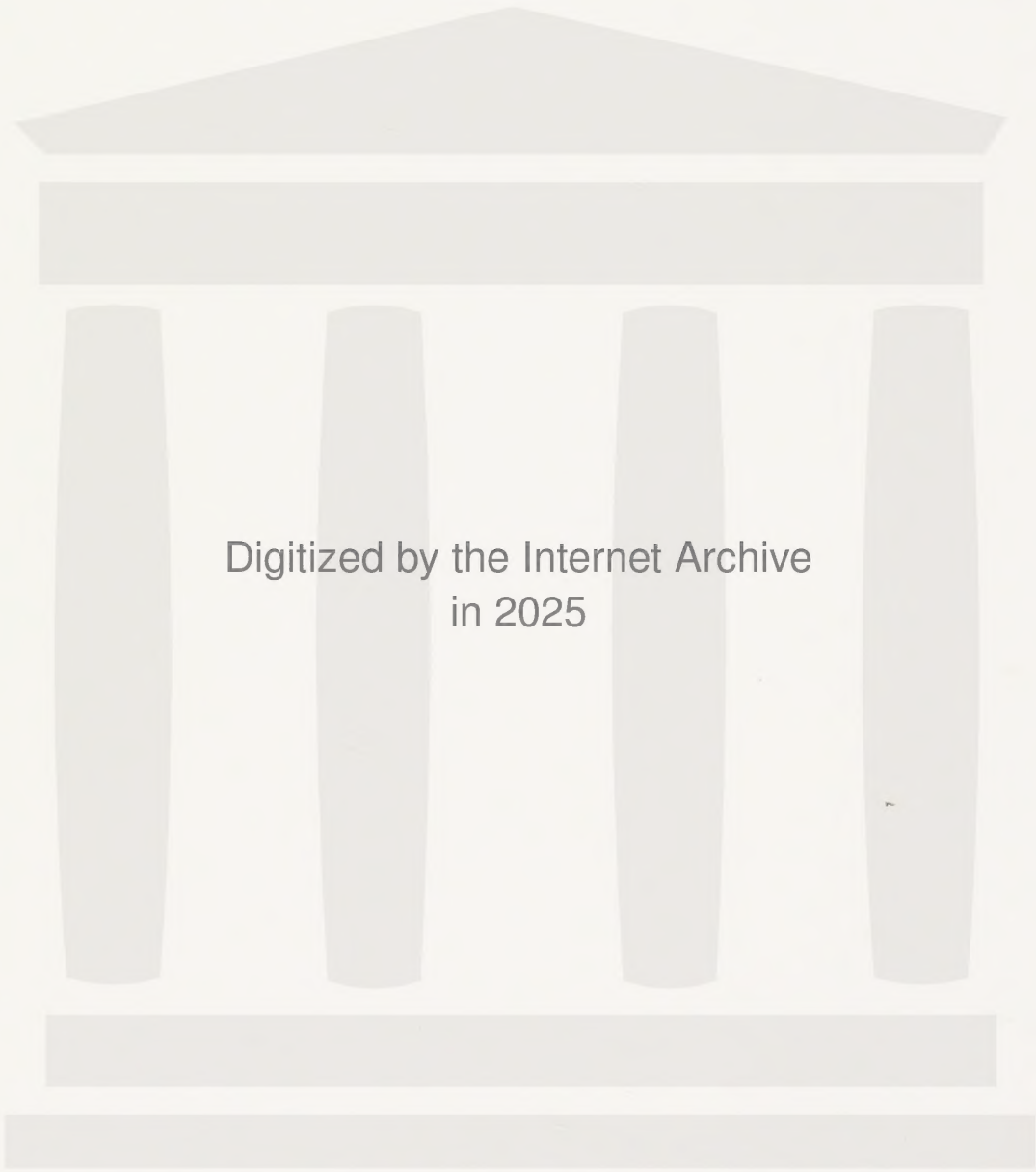
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Current Fishery Statistics No. 9700

Fisheries of the United States, 1997

Prepared by:
Fisheries Statistics and Economics Division

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Silver Spring, MD
September 1998

U.S. DEPARTMENT OF COMMERCE
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PREFACE

FISHERIES OF THE UNITED STATES, 1997

This publication is a preliminary report for 1997 on commercial and recreational fisheries of the United States with catches in the U.S. waters and foreign Exclusive Economic Zones (EEZ) waters. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, employment, prices, and production of processed products are preliminary for 1997. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank members of states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Tony Frank, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings are shown in round weight (except mollusks which are in meat weight), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel (in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

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REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.8 billion pounds or 4.5 million metric tons valued at $3.5 billion in 1997--an increase of 280.9 million pounds (up 3 percent), but a decrease of $20.1 million (down 1 percent) compared with 1996. The volume of 1997 U.S. landings was increased due to landings of major species such as menhaden, yellowfin flounder, snow (tanner) crab, Atlantic cod and Pacific hake (whiting), and due to the inclusion of seaweed (kelp) that had been incompletely reported in past surveys. The decreased value of 1997 landings occurred due to the relatively low value associated with menhaden and seaweed and decreased landings of some high-value fisheries such as salmon and shrimp. Finfish accounted for 85 percent of the total landings, but only 50 percent of the value. The 1997 exvessel price paid to fishermen was 35 cents compared to 36 cents they received in 1996.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred to internal water processing vessels (IWPs) were an additional 378.6 million pounds (171,700 metric tons) valued at $185.5 million. This was a 7 percent, or 27.5 million pounds (12,500 metric ton) decrease in quantity, but an increase of $25.5 million (16 percent) in value compared with 1996. Most of these landings consisted of halibut landings in Canada, sea herring and tuna landed in Puerto Rico, American Samoa and other foreign ports, and IWP transfers of sea herring.

Edible fish and shellfish landings in the 50 states were 7.2 billion pounds (3.3 million metric tons) in 1997--a decrease of 226 million pounds (103,000 metric tons) compared with 1996.

Landings for reduction and other industrial purposes were 2.6 billion pounds (1.2 million metric tons) in 1997--an increase of 20 percent compared with 1996.

The 1997 U.S. marine recreational finfish catch (including fish caught and released alive) on the Atlantic, Gulf, and Pacific coasts was an estimated 366.2 million fish taken on an estimated 68.1 million fishing trips. The harvest (fish kept) was estimated at 163.6 million fish weighing 234.2 million pounds.

WORLD LANDINGS. In 1996, the most recent year for which data are available, world commercial fishery landings were 121.0 million metric tons--an increase of 3.7 million metric tons (up 3 percent) compared with 1994.

China was the leading nation with 26.4 percent of the total catch; Peru, second with 7.9 percent; Chile, third with 5.7 percent; Japan, fourth with 5.6 percent; and United States, fifth with 4.5 percent.

PRICES. The 1997 annual exvessel price index for edible fish and shellfish showed an increase of 5 percent while industrial fish increased 20 percent when compared with 1996. Exvessel price indices decreased for 12 of the 33 species groups being tracked, increased for 20 species groups and were not calculated for calico scallops. The sea herring price index had the largest decrease (50 percent) while the bay scallops price index showed the largest increase (61 percent).

PROCESSED PRODUCTS. The estimated value of the 1997 domestic production of edible and nonedible fishery products was $6.8 billion, $1.2 billion (15 percent) less than the $8.0 billion in 1996. The value of edible products was $6.2 billion--a decrease of $1.1 billion (15 percent) compared with 1996. The value of industrial products was $579.1 million in 1997--a decrease of $65.4 million (10 percent) compared with 1996.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was $14.5 billion in 1997--an increase of $1.5 billion (11 percent) compared with 1996. Imports of edible fishery products (product weight) were 3.3 billion pounds (1.5 million metric tons) valued at $7.8 billion in 1997--an increase of 169.1 million pounds (5 percent) and $1.0 billion (15 percent) compared with 1996. Imports of nonedible (i.e., industrial) products were $6.8 billion--an increase of $443.3 million (7 percent) compared with 1996.

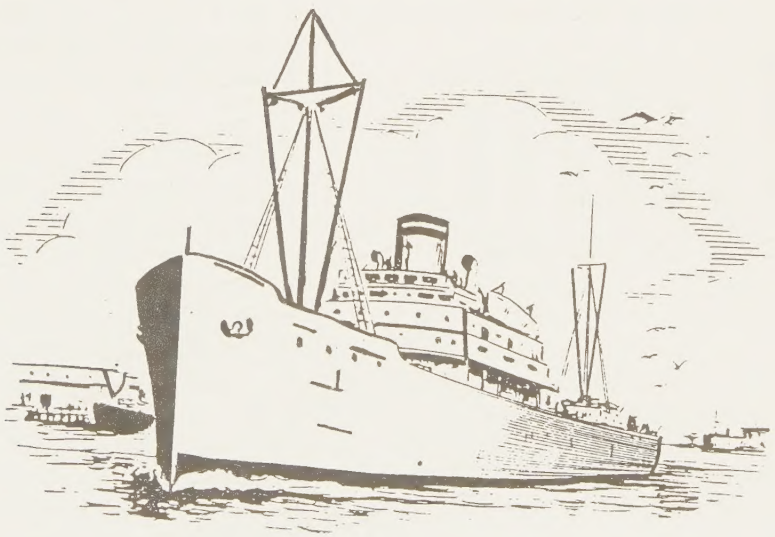
REVIEW

Total export value of edible and nonedible fishery products was $9.4 billion in 1997--an increase of $700.2 million (8 percent) compared with 1996. United States firms exported 2.0 billion pounds (915,800 metric tons) of edible products valued at $2.7 billion--a decrease of 93.2 million pounds, and $319.2 million compared with 1996. Exports of nonedible products were valued at a record $6.6 billion, $1.0 billion more than 1996.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 13.7 billion pounds (6.2 million metric tons) in 1997--an increase of 115.0 million pounds compared with 1996. The supply of industrial fishery products was 3.7 billion pounds (1.7 million metric tons) in 1997--an increase of 843.0 million pounds (6 percent) compared with 1996.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 14.6 pounds of edible meat per person in 1997, down 0.2 pound from the 1996 per capita consumption of 14.8 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated $46.5 billion for fishery products in 1997. The 1997 total includes $31.3 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); $14.8 billion in retail sales for home consumption; and $323.3 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $24.4 billion (in value added) to the U.S. Gross National Product.



REVIEW

OTHER IMPORTANT FACTS

Alaska pollock, with landings of 2.5 billion pounds (1.1 million metric tons), was the most important species in quantity and fifth in value for 1997, accounting for 26 percent of the commercial fishery landings in the United States.

Menhaden was the second most important species in quantity, but low in value.

Cods were third in quantity and sixth in value.

Salmon were fourth in quantity and fourth in value.

Flounders were fifth in quantity, and seventh in value.

Hakes were sixth in quantity, but low in value.

Shrimp were ninth in quantity, but first in value.

Crabs were seventh in quantity, but second in value.

Lobsters were low in quantity, but third in value.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 373.8 million pounds. Halibut, grouper and sea herring also were landed at ports outside the United States or transferred to internal water processing vessels in U.S. waters.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Reedville, Virginia; Empire-Venice, Louisiana; Cameron, Louisiana; and Seattle, Washington.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Empire-Venice, Louisiana; and Key West, Florida.

Alaska led all states in volume with landings of 4.8 billion pounds, followed by Louisiana, 1.4 billion; California, 648.7 million; Virginia, 611.5 million; and Washington, 438.6 million pounds.

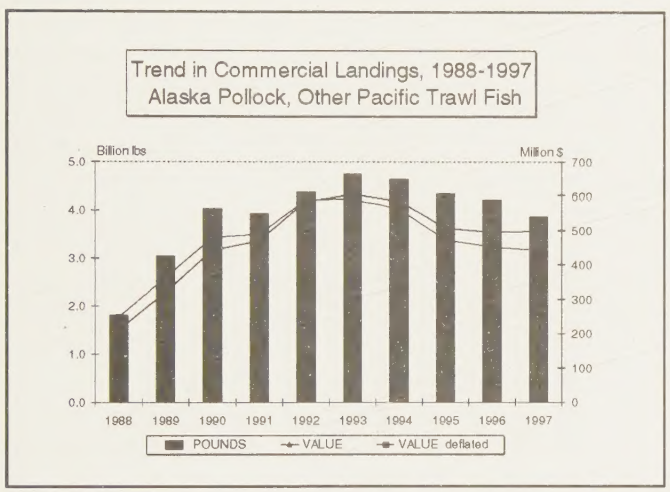
Alaska led all states in value of landings with $1.1 billion, followed by Louisiana, $318.8 million; Maine, $223.2 million; Massachusetts, $214.7 million; and Florida, $209.2 million.

REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.4 billion pounds valued at $525.1 million--an increase of 3 percent in quantity and a 6 percent increase in value compared with 1996.

Landings of Alaska pollock decreased 4 percent to 2.5 billion pounds and were 15 percent lower than the 1992-1996 5-year average. Landings of Pacific cod



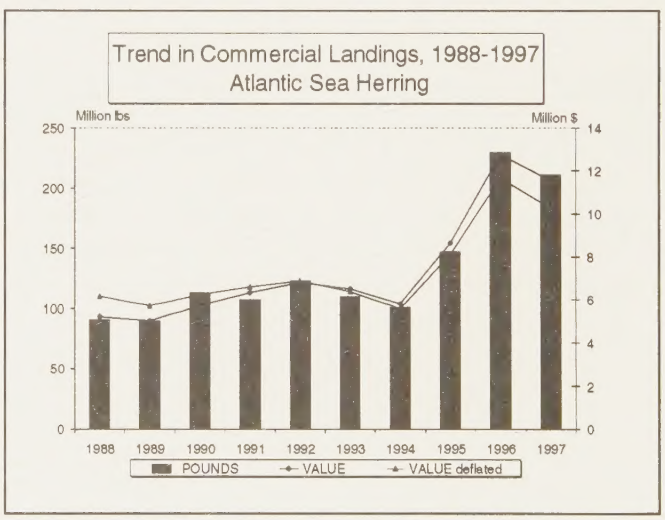
were 661.3 million pounds -- an increase of 9 percent from 605.3 million pounds in 1996. Pacific hake (whiting) landings were 499.6 million pounds (up 16 percent) valued at $27.3 million (up 6 percent from 1996). Landings of rockfishes were 117.0 million pounds (up 23 percent) and valued at $47.9 million (up 23 percent) compared to 1996. The 1997 rockfish landings were 12 percent higher than the 5-year average.

ANCHOVIES. U.S. landings of anchovies were 12.7 million pounds--an increase of 2.8 million pounds (28 percent) compared with 1996. Eighty-two percent of all landings were used for animal food or reduction and 12 percent were used for bait.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 69.9 million pounds (round weight) valued at $117.4 million--an increase of 20.8 million pounds (42 percent) and $33.9 million (41 percent) compared with 1996. The Pacific fishery accounted for all but 30,000 pounds of the 1997 total halibut catch. The average exvessel price per pound in 1997 was $1.68 compared with $1.70 in 1996.

HERRING, SEA. U.S. commercial landings of sea herring were 347.9 million pounds valued at $40.9 million--an increase of 30.3 million pounds (9 percent) and a decrease of $40.1 million (49 percent) compared with 1996. Landings of Atlantic sea herring were 211.0 million pounds valued at $11.5 million--an increase of 13.9 million pounds (7 percent) and $349,000 (3 percent) compared with 1996.

Landings of Pacific sea herring were 136.9 million pounds valued at $29.3 million--an increase of 16.4 million pounds (14 percent) but a decrease of $40.4



million (58 percent) compared with 1996. Alaska landings accounted for 84 percent of the Pacific coast with 115.5 million pounds valued at $15.9 million--an increase of 8.1 million pounds (8 percent) and a decrease of $38.9 million (71 percent) compared with 1996.

JACK MACKEREL. California accounted for 100 percent of the U.S. landings of jack mackerel in 1997. Total landings were 2.6 million pounds valued at $281,000--a decrease of 2.2 million pounds (47 percent), and $15,000 (5 percent) compared with 1996. The 1997 average exvessel price per pound rose to 11 cents.

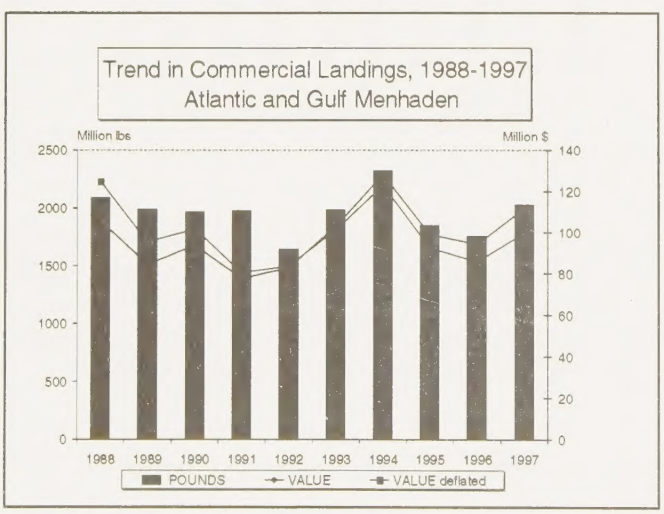
REVIEW

IMPORTANT SPECIES

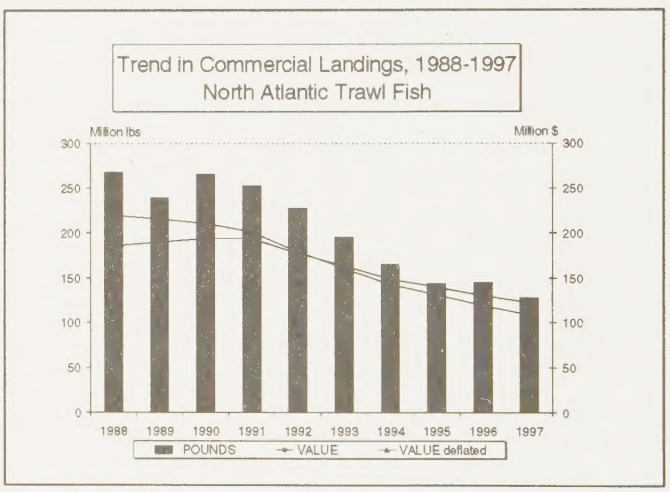
MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 33.9 million pounds valued at $9.5 million--a decrease of 861,000 pounds (2 percent), but an increase of $4.9 million (106 percent) compared with 1996. Rhode Island with 21.3 million pounds and New Jersey with 9.5 million pounds accounted for 91 percent of the total landings. The average exvessel price per pound in 1997 was 28 cents, up from 13 cents in 1996. The price increase was due to Rhode Island and New Jersey mackerel frozen at sea which provided a higher exvessel price to fishermen.

MACKEREL, CHUB. Landings of Chub mackerel were 40.6 million pounds valued at $2.8 million--an increase of 18.6 million pounds (84 percent) and $1.4 million (107 percent) compared with 1996. The average exvessel price per pound was 7 cents, up from 6 cents in 1996.

MENHADEN. The U.S. menhaden landings were 2.0 billion pounds valued at $112.1 million--an increase of 272.3 million pounds (16 percent) and $17.9 million (19 percent) compared with 1996. Landings decreased by 15.0 million pounds (2 percent) in the Atlantic states and increased 287.3 million pounds (27 percent) in the Gulf states compared with 1996. Landings along the Atlantic coast were 656.7 million pounds valued at $40.0 million. Gulf region landings were 1.4 billion pounds valued at $72.0 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.



NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (winter/blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 116.0 million pounds valued at $108.1



million--a decrease of 18.6 million pounds (14 percent) and a decrease of $7.0 million (6 percent) compared with 1996. Of these species, flounder led in total value in the North Atlantic, accounting for 53 percent of the total; followed by cod, 23 percent; and whiting, 7 percent.

The 1997 landings of Atlantic cod were 28.6 million pounds valued at $24.5 million--a decrease of 2.8 million pounds (9 percent) and $2.1 million (8 percent) compared with 1996. The exvessel price per pound was 93 cents in 1997 up from 85 cents per pound in 1996.

Landings of yellowtail flounder were 6.3 million pounds--an increase of 1.0 million pounds (19 percent) from 1996, and about 14 percent lower than its 5-year average.

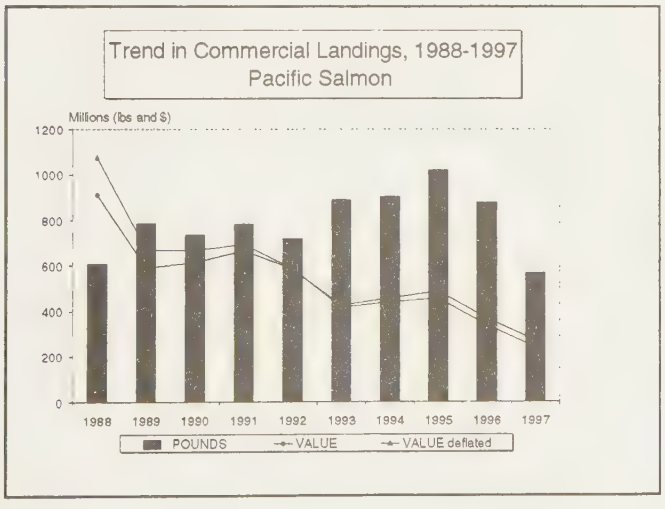
Haddock landings increased to 3.3 million pounds (164 percent) and $3.6 million (141 percent) when compared with 1996.

REVIEW

IMPORTANT SPECIES

North Atlantic pollock landings were 9.4 million pounds valued at $5.3 million--an increase of 2.9 million pounds (44 percent) and $0.9 million (18 percent) compared with 1996.

PACIFIC SALMON. U.S. commercial landings of salmon were 567.7 million pounds valued at $270.4 million--a decrease of 309.4 million pounds (35 percent), and $98.3 million (27 percent) compared with 1996. Alaska and Washington accounted for 94 percent and 4 percent of the total landings, respectively. Sockeye salmon landings were 192.5 million pounds valued at $177.3 million--a decrease of 125.9 million pounds (40 percent), and $89.1 million (33 percent) compared with 1996. Chinook salmon landings increased to 21.8 million pounds--up 1.3 million pounds (6 percent) from 1996. Pink salmon landings were 227.0 million pounds--a decrease of 82.8 million pounds (27 percent); chum salmon decreased to 103.1 million pounds (43 percent); and coho salmon decreased to 23.3 million pounds--a decrease of 24.4 million pounds (51 percent) compared with 1996.



Alaska landings were 537.9 million pounds valued at $247.8 million--a decrease of 316.9 million pounds (37 percent), and $104.6 million (30 percent) compared with 1996. The distribution of Alaska salmon landings by species in 1997 was: sockeye, 185.5 million pounds (34 percent); pink, 219.9 million pounds (41 percent); chum, 98.9 million pounds (18 percent); coho, 22.3 million pounds (4 percent); and chinook, 11.2 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 46 cents in 1997-- an increase of 5 cents from 1996.

Washington salmon landings were 20.7 million pounds valued at $12.3 million--an increase of 6.5 million pounds (46 percent), and $5.4 million (78 percent) compared with 1996. The biennial fishery for pink salmon went from no catch in 1996 to 7.1 million pounds in 1997. Washington landings of sockeye salmon were 6.9 million pounds (up 245 percent); followed by chum salmon, 4.2 million pounds--a decrease of 2.7 million pounds (down 39 percent); silver, 824,000 pounds (down 67 percent); and chinook, 1.7 million pounds (down 38 percent) compared with 1996. The average exvessel price per pound for all species in Washington increased from 48 cents in 1996 to 59 cents in 1997.

Oregon salmon landings were 2.2 million pounds valued at $2.8 million--a decrease of 588,000 pounds (21 percent) and $516,000 (16 percent) compared with 1996. Landings of chinook salmon were 2.1 million pounds (down 20 percent) and coho with 151, 000 pounds (down 30 percent). The average exvessel price per pound for all species in Oregon increased from $1.16 in 1996 to $1.24 in 1997.

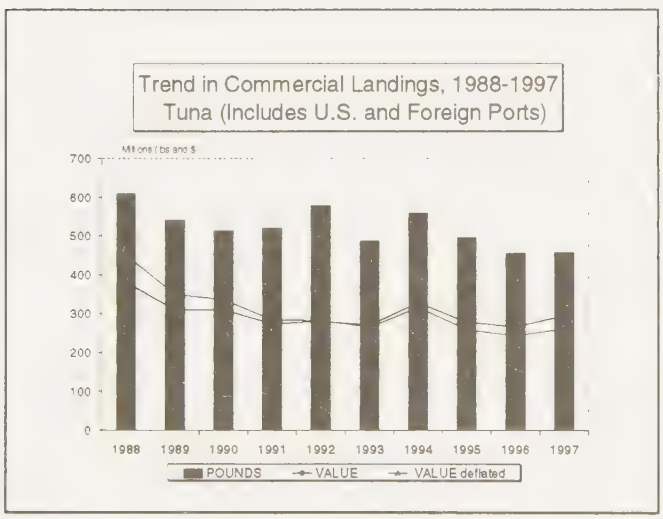
California salmon landings were 6.1 million pounds valued at $7.3 million--an increase of 1.4 million pounds (28 percent) and $1.3 million (22 percent) compared with 1996. Landings of chinook salmon were 6.1 million pounds; coho landings were 6,000 pounds. The average exvessel price per pound paid to fishermen in 1997 was $1.20 compared with $1.26 in 1996.

SABLEFISH. U.S. commercial landings of sablefish were 52.9 million pounds valued at $108.8 million--a decrease of 7.0 million pounds (12 percent) and a decrease of $232,000 (less than 1 percent) compared with 1996. Landings decreased in Alaska to 35.1 million pounds, a decrease of 14 percent compared with 1996. Landings increased in Washington to 5.0 million pounds (1 percent) and $9.7 million (up 15 percent). The 1997 Oregon catch was 6.5 million pounds (down 8 percent) and $10.4 million (up 3 percent) compared with 1996. California landings of 6.4 million pounds and $8.9 million represent a 9 percent decrease in quantity and a 3 percent increase in value from 1996. The average exvessel price per pound in 1997 was $2.06 compared with $1.82 in 1996.

IMPORTANT SPECIES

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 456.6 million pounds valued at $294.3 million--an increase of 300,000 pounds (less than 1 percent) and $28.2 million (11 percent) compared with 1996. The average exvessel price per pound of all species of tuna in 1997 was 64 cents compared with 58 cents in 1996.

Bigeye landings in 1997 were 14.7 million pounds--an increase of 300,000 pounds (2 percent) compared with 1996. The average exvessel price per pound was $1.69 in 1997 compared with $1.91 in 1996.



Skipjack landings were 247.3 million pounds--a decrease of 36.1 million pounds (13 percent) compared with 1996. The average exvessel price per pound was 45 cents in 1997, compared to 40 cents in 1996.

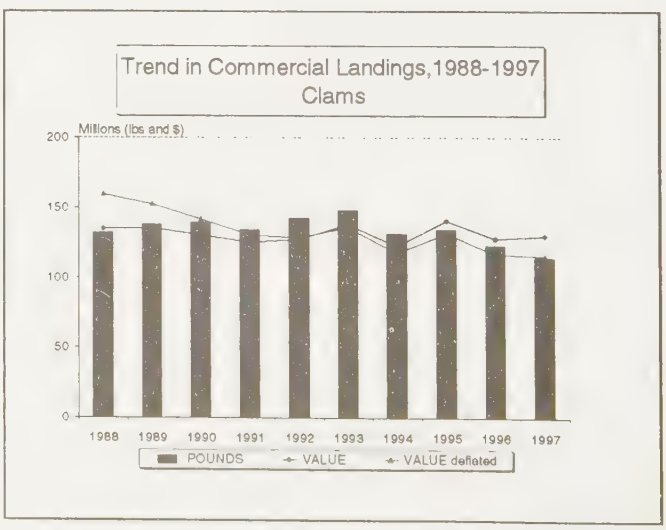
Yellowfin landings were 141.6 million pounds--an increase of 37.6 million pounds (36 percent) compared with 1996. The average exvessel price per pound was 72 cents in 1997 compared with 64 cents in 1996.

Bluefin landings were 7.3 million pounds--a decrease of 4.8 million pounds (40 percent) compared with 1997. The average exvessel price per pound in 1997 was $2.78 compared with $1.80 in 1996.

CLAMS. Landings of all species yielded 114.2 million pounds of meats valued at $129.7 million--a decrease of 9.1 million pounds (7 percent), but an increase of $1.9 million (1 percent) in value compared with 1996. The average exvessel price per pound in 1997 was $1.14 compared with $1.04 in 1996.

Surf clams yielded 58.0 million pounds of meats valued at $35.2 million--a decrease of 5.4 million pounds (9 percent) and $3.0 million (8 percent) compared with 1996. New Jersey was the leading state with 45.6 million pounds (down 6 percent), followed by New York, 6.9 million pounds (down 10 percent) compared with 1996. The average exvessel price per pound of meats was 61 cents in 1997, up one cent from 1996.

The ocean quahog fishery produced 43.9 million pounds of meats valued at $19.9 million--a decrease of 2.5 million pounds (5 percent) and $623,000 (3 percent) compared with 1996. New Jersey had landings of 18.3 million pounds (up 3 percent) valued at $7.6 million (up 4 percent) while Massachusetts production was 20.4 million pounds (up 17 percent) valued at $8.6 million (up 17 percent). Together, they accounted for 88 percent of the total ocean quahog production in 1997. The average exvessel price per pound of meats increased from 44 cents in 1996 to 45 cents in 1997.



IMPORTANT SPECIES

The hard clam fishery produced 7.7 million pounds of meats valued at $41.9 million--a decrease of 2.3 million pounds (23 percent) and $7.5 million (15 percent) compared with 1996. Landings in the New England region were 1.5 million pounds of meats (unchanged); Middle Atlantic region, 4.6 million pounds (unchanged); Chesapeake region, 687,000 pounds (down 14 percent); and the South Atlantic region, 993,000 pounds (down 44 percent). The average exvessel price per pound of meats increased from $4.94 in 1996 to $5.43 in 1997.

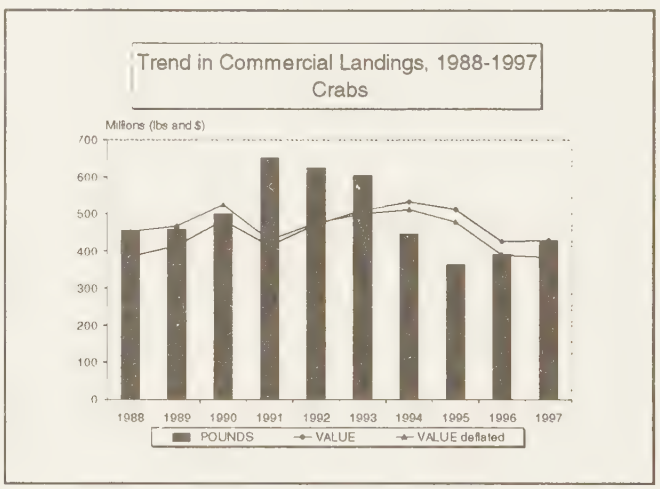
Soft clams yielded 2.3 million pounds of meats valued at $9.9 million--an increase of 99,000 pounds (5 percent) and $1.7 million (20 percent) compared with 1996. Maine was the leading state with 1.8 million pounds of meats (down 16 percent) followed by New York with 271,000 pounds (up 32 percent) and Maryland with 249,000 pounds (down 22 percent). The average exvessel price per pound of meats was $4.32 in 1997 compared with $3.75 in 1996.

CRABS. Landings of all species of crabs were 430.0 million pounds valued at $429.5 million--an increase of 38.2 million pounds (10 percent), and $2.8 million (1 percent) compared with 1996.

Hard blue crab landings were 230.8 million pounds valued at $158.2 million--an increase of 11.9 million pounds (5 percent) and $11.1 million (8 percent) compared with 1996. North Carolina landed 25 percent of the total; Maryland, 19 percent; Louisiana, 19 percent; and Virginia, 18 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 87.4 million pounds--an increase of 28 percent; the South Atlantic region with 75.3 million pounds decreased 13 percent; and the Gulf region, 61.2 million pounds, increased 7 percent. The Middle Atlantic region with 10.6 million pounds valued at $7.3 million had an increase of 3.4 million pounds (48 percent) compared with 1996. The average exvessel price per pound of hard blue crabs was 69 cents in 1997, two cents more than in 1996.

Dungeness crab landings were 38.2 million pounds valued at $75.7 million--a decrease of 26.8 million pounds (41 percent) and $12.2 million (14 percent) compared with 1996. Washington landings of 15.7 million pounds (down 43 percent) led all states with 41 percent of the total landings. California landings were 10.0 million pounds (down 19 percent) compared with 1996. Oregon landings were 7.7 million pounds (down 60 percent) and Alaska landings were 4.9 million pounds (down 17 percent) compared with 1996. The average exvessel price per pound was $1.98 in 1997 compared with $1.35 in 1996.

U.S. landings of king crab were 18.0 million pounds valued at $50.6 million--a decrease of 3.0 million pounds (14 percent) and $12.0 million (19 percent) compared with 1996. The average exvessel price per pound in 1997 was $2.81 compared with $2.98 in 1996.



Snow (tanner) crab landings were 118.9 million pounds valued at $95.7 million--an increase of 51.0 million pounds (43 percent) and $2.4 million (3 percent) compared with 1996. The average exvessel price per pound was 80 cents in 1997, down from $1.37 in 1996.

LOBSTER, AMERICAN. American lobster landings were 83.9 million pounds valued at $267.2 million--an increase of 12.3 million pounds (17 percent), and $25.4 million (11 percent) compared with 1996. Maine led in landings for the sixteenth consecutive year with 46.8 million pounds valued at $137.5 million--an increase of 10.8 million pounds (30 percent) compared with 1996. Massachusetts, the second leading producer, had landings of 14.9 million pounds valued at

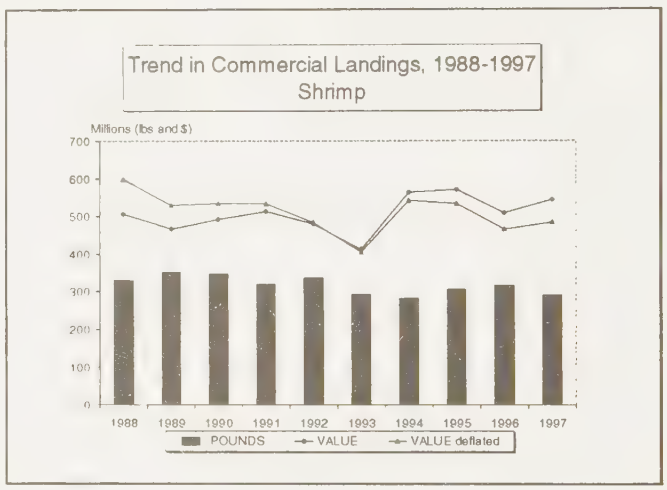
IMPORTANT SPECIES

$52.1 million--a decrease of 800,000 pounds (5 percent) compared with 1996. Together, Maine and Massachusetts produced 73 percent of the total national landings. The average exvessel price per pound was $3.18 in 1997 compared with $3.38 in 1996.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 7.2 million pounds valued at $33.4 million--a decrease of 1.1 million pounds (13 percent) and $1.8 million (5 percent) compared with 1996. Florida, with landings of 6.1 million pounds valued at $25.4 million, accounted for 85 percent of the total catch and 76 percent of the value. This was a decrease of 1.3 million pounds (18 percent), and $3.2 million (12 percent) compared with 1996. Overall the average exvessel price per pound was $4.61 in 1997 compared with $4.24 in 1996.

OYSTERS. U.S. oyster landings yielded 39.7 million pounds of meats valued at $111.2 million -- an increase of 1.6 million pounds (4 percent), but a decrease of $3.7 million (3 percent) compared with 1996. The Gulf region led in production with 23.2 million pounds of meats, 58 percent of the national total; followed by the Pacific region (principally Washington, with 89 percent of the region's total volume) with 8.9 million pounds (22 percent), and the New England region, with 4.2 million pounds (11 percent). The average exvessel price per pound of meats was $2.80 in 1997 compared with $3.02 in 1996.

SHRIMP. U.S. landings of shrimp were 290.3 million pounds valued at $544.1 million--a decrease of 26.6 million pounds (8 percent), but an increase of $34.9 million (7 percent) in value compared with 1996. Shrimp landings decreased in the South Atlantic (down 37 percent) and New England (down 33 percent), and were down 6 percent in the Gulf. The landings in the Pacific increased 22 percent when compared with 1996. The average exvessel price per pound of shrimp increased to $1.87 in 1997 compared with $1.61 in 1996. Gulf region landings were the nation's largest with 205.5 million pounds, and 71 percent of the national total. Louisiana led all Gulf states with 93.2 million pounds (up 3 percent), followed by Texas, 71.3 million pounds (down 6 percent); Florida (West Coast), 19.7 million pounds (down 23 percent); Alabama, 11.6 million pounds (down 30 percent); and Mississippi, 9.7 million pounds (down 2 percent). In the Pacific region, Oregon had landings of 19.6 million pounds (up 25 percent), California had 15.3 pounds (up 31 percent), and Washington had landings of 6.1 million pounds (down 10 percent) compared with 1996.



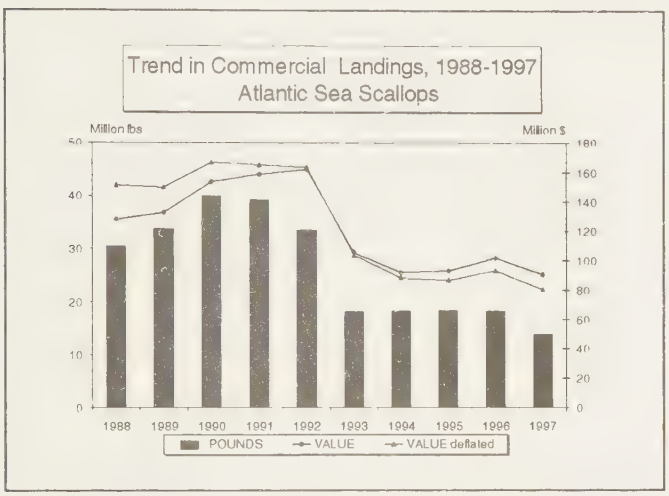
SCALLOPS. U.S. landings of bay, calico and sea scallops totaled 15.5 million pounds of meats valued at $94.2 million -- a decrease of 2.7 million pounds (17 percent), and $7.7 million (8 percent) compared with 1996. The average exvessel price per pound of meats increased from $5.60 in 1996 to $6.09 in 1997.

Bay scallop landings were 72,000 pounds of meats valued at $310,000--an increase of 37,000 pounds (106 percent) and $216,000 (230 percent) compared with 1996. The average exvessel price per pound of meats was $4.31 in 1997 compared with $2.68 in 1996.

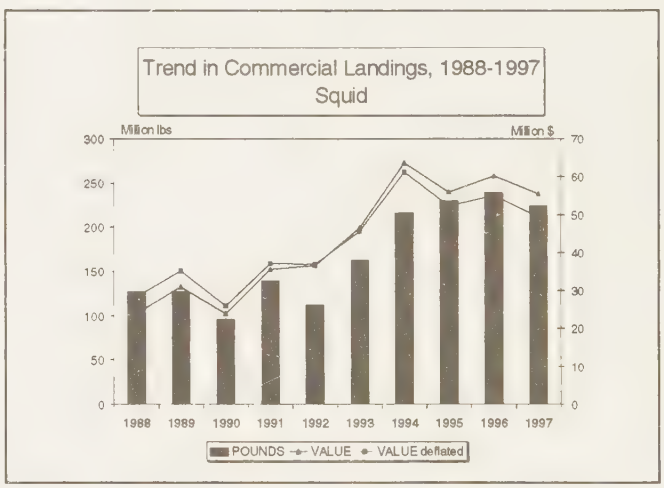
Sea scallop landings were 13.8 million pounds of meats valued at $90.3 million--a decrease of 4.4 million pounds (24 percent) and $11.5 million (11 percent) compared with 1996. Massachusetts and Virginia were the leading states in landings of sea scallops with 7.1 and 3.3 million pounds of meats,

respectively. These represent 75 percent of the national total. The average exvessel price per pound of meats in 1997 was $6.55 compared with $5.61 in 1996.

Florida accounted for the total landings of calico scallops with 1.6 million pounds valued at $3.6 million in 1997.



SQUID. U.S. commercial landings of squid were 223.8 million pounds valued at $55.5 million--a decrease of 16.3 million pounds (7 percent) and $4.7 million (8 percent) compared with 1996. California was the leading state with 156.4 million pounds, 70 percent of the national total. The Pacific region landings were 157.6 million pounds (down 10 percent), followed by the Middle Atlantic, 33.2 million pounds (up 11 percent); New England, 31.8 million pounds (down 7 percent); and the South Atlantic region, 840,000 pounds (up 300 percent) compared with 1996. The average exvessel price per pound for squid was 25 cents in 1997, unchanged from 1996.



REVIEW

PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.6 pounds (edible meat) in 1997. This total was 0.2 pounds less than the 14.8 pounds consumed in 1996. Per capita consumption of fresh and frozen products was 9.9 pounds, 0.1 pound less than 1996.

Fresh and frozen finfish accounted for 6.1 pounds while fresh and frozen shellfish consumption was 3.8 pounds per capita. The fresh and frozen finfish includes approximately 0.9 pound of farm raised catfish. Consumption of canned fishery products was 4.4 pounds per capita in 1997, a decrease of 0.1 pound from 1996. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 61 percent of the consumption.

PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1997 was 63.9 pounds, up 1.8 pounds compared with 1996.

REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1997 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 397.5 million pounds--25.8 million pounds less than the 423.3 million pounds in 1996. These fillets and steaks were valued at $908.9 million--$4.9 million more than 1996. Alaska pollock fillets and blocks led all species with 112.0 million pounds--28 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 219.5 million pounds compared with 245.4 million pounds in 1996.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 264.7 million pounds valued at $349.6 million compared with the 1996 production of 279.2 million pounds valued at $362.3 million--a decrease of 14.5 million pounds and $12.7 million.

The total production of fish sticks amounted to 69.1 million pounds valued at $64.3 million--an increase of 3.9 million pounds and $8.5 million compared with 1996. The total production of fish portions amounted to 195.6 million pounds valued at $285.3 million -- a decrease of 18.4 million pounds and $21.2 million compared with 1996.

BREADED SHRIMP. The production of breaded shrimp in 1997 was 117.0 million pounds valued at $333.3 million, compared with the 1996 production of 108.5 million pounds valued at $341.8 million.

FROZEN FISHERY TRADE. In 1997, stocks of frozen fishery products in cold storage were at a low of 318.4 million pounds on February 28 and a high of 507.8 million pounds on October 31. Cold storage holdings of shrimp products were at a high of 47.7 million pounds on December 31 and a low of 29.0 million pounds on July 31. Holdings of saltwater fillets and steaks reached a high of 88.7 million pounds on July 31 and were at a low of 64.5 million pounds on January 31. Holdings of blocks and slabs were at a high of 60.3 million pounds on December 31 and a low of 41.4 million pounds on February 28. Surimi reached a high of 19.8 million pounds on November 30 and was at a low of 11.2 million pounds on July 31. Analog Products reached a high of 4.8 million pounds on January 31 and a low of 3.4 million pounds on December 31.

REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.6 billion pounds valued at $1.6 billion--a decrease of 311.9 million pounds, and $206.7 million compared with the 1996 pack. The 1997 pack included 952.8 million pounds valued at $1.4 billion for human consumption and 612.3 million pounds valued at $231.8 million for bait and animal food.

CANNED SALMON. The 1997 U.S. pack of salmon was 162.1 million pounds valued at $252.8 million, compared with 197.2 million pounds valued at $284.3 million packed in 1996.

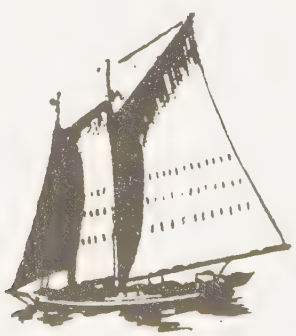
CANNED SARDINES. The pack of Maine sardines (small herring) was 16.0 million pounds valued at $29.0 million, a decrease of 1.7 million pounds and $830,000 compared with 1996. There were 5.9 million pounds of herring valued at $11.2 million packed in 1997 -- 362,000 pounds less, but $346,000 more in value than the 1996 pack.

CANNED TUNA. The U.S. pack of tuna was 627.0 million pounds valued at $918.7 million--a decrease of 48.8 million pounds in quantity and $38.2 million in value compared with the 1996 pack. The pack of albacore tuna was 185.3 million pounds--19.7 million pounds more than the 165.6 million pounds produced in 1996. Albacore tuna comprised 30 percent of the tuna pack in 1997. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 441.7 million pounds--68.4 million pounds less than the 510.2 million pounds packed in 1996.

CANNED CLAMS. The 1997 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 124.9 million pounds valued at $114.6 million--a decrease of 4.5 million pounds and $2.7 million less in value than the pack in 1996. The pack of whole and minced clams was 43.7 million pounds--2.2 million pounds more than the 1996 pack and accounted for 35 percent of the total clam pack. Clam chowder and clam juice was 69.9 million pounds and made up the majority of the pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 1.2 million pounds valued at $4.6 million--an increase of 349,000 pounds, but a decrease of $1.5 million in value compared with the 1996 pack.

OTHER CANNED ITEMS. The pack of pet food was 612.3 million pounds valued at $231.8 million--a decrease of 211.8 million pounds compared with the 1996 pack.



REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

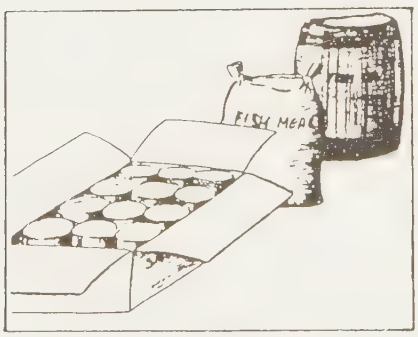
INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $347.4 million--an increase of $73.8 million compared with the 1996 value of $273.6 million.

FISH MEAL. The domestic production of fish and shellfish meal was 724.7 million pounds valued at $173.9 million--an increase of 81.5 million pounds, and $36.0 million compared with 1996. Menhaden meal production was 478.5 million pounds valued at $115.7 million--an increase of 59.6 million pounds and $28.9 million compared with 1996. Menhaden accounted for 66 percent of the 1997 production of meal. Shellfish meal production was 18.1 million pounds--an increase of 476,000 pounds from the 1996 level. Tuna and mackerel meal production was 56.1 million pounds--a decrease of 662,000 pounds from 1996. Production of unclassified meal (consisting mainly of Alaska pollock and unclassified fish) was 171.9 million pounds--an increase of 22.1 million pounds compared with 1996.

FISH SOLUBLES. Domestic production of fish solubles was 144.0 million pounds, 62.0 million pounds more than the 1996 production.

FISH OILS. The domestic production of fish oils was 283.4 million pounds valued at $55.3 million--an increase of 35.0 million pounds, and $11.3 million in value compared with 1996 production. The production of menhaden oil was 278.0 million pounds valued at $53.7 million--an increase of 31.5 million pounds, and $10.0 million compared with 1996. Menhaden oil accounted for 98 percent of the volume and value of the total 1997 fish oil production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at $108.6 million, compared with $85.6 million in 1996--an increase of $23.0 million.



REVIEW

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. imports of edible fishery products in 1997 were valued at $7.8 billion, $1.0 billion more than in 1996. The quantity of edible imports was 3.3 billion pounds, 169.1 million pounds more than the quantity imported in 1996.

Edible imports consisted of 2.9 billion pounds of fresh and frozen products valued at $7.0 billion, 387.1 million pounds of canned products valued at $525.3 million, 69.0 million pounds of cured products valued at $131.6 million, 4.3 million pounds of caviar and roe products valued at $31.2 million, and 16.9 million pounds of other products valued at $44.2 million.

The quantity of shrimp imported in 1997 was 648.3 million pounds, 65.9 million pounds more than the quantity imported in 1996. Valued at $2.9 billion, shrimp imports accounted for 37 percent of the value of total edible imports. Imports of fresh and frozen tuna were 438.5 million pounds, 90.2 million pounds less than the 528.7 million pounds imported in 1996. Imports of canned tuna were 212.2 million pounds, 19.1 million pounds more than in 1996. Imports of fresh and frozen fillets and steaks amounted to 514.8 million pounds, an increase of 38.3 million pounds from 1996. Regular and minced block imports were 234.0 million pounds, a decrease of 238,000 pounds from 1996.

Imports of nonedible fishery products were valued at $6.8 billion--an increase of $443.3 million compared with 1996. The total value of edible and nonedible products was $14.5 billion in 1997, $1.4 billion more than in 1996 when $13.1 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 2.0 billion pounds valued at $2.7 billion, a decrease of 93.2 million pounds, and $319.2 million when compared with 1996. Fresh and frozen items were 1.8 billion pounds valued at $2.1 billion, a decrease of 29.6 million pounds, and $189.8 million compared with 1996. In terms of individual species, fresh and frozen exports consisted principally of 189.9 million pounds of salmon valued at $307.5 million, 310.2 million pounds of surimi valued at $331.0 million and 47.2 million pounds of lobsters valued at $208.6 million.

Canned items were 129.5 million pounds valued at $202.7 million. Salmon was the major canned item exported, with 81.6 million pounds valued at $135.4 million. Cured items were 10.6 million pounds valued at $20.9 million. Caviar and roe exports were 90.0 million pounds valued at $369.1 million.

Exports of nonedible products were valued at $6.6 billion compared with $5.6 billion in 1996. Exports of fish meal amounted to 216.3 million pounds valued at $57.2 million. The total value of edible and nonedible exports was $9.4 billion--an increase of $700.2 million compared with 1996.

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1)

Species	1996			1997			Average (1992-96)
Fish	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Alewives	975	442	198	1,160	526	193	1,962
Anchovies	9,933	4,506	988	12,738	5,778	827	9,704
Atka mackerel	194,070	88,030	29,111	131,258	59,538	6,999	153,623
Bluefish	9,356	4,244	3,166	9,307	4,222	2,849	9,905
Blue runner	263	119	138	352	160	198	1,158
Bonito	1,339	607	425	993	450	405	1,987
Butterfish	9,685	4,393	5,847	7,544	3,422	5,112	7,688
Catfish and bullheads	9,062	4,110	4,411	15,150	6,872	9,615	11,026
Chubs	3,014	1,367	1,873	3,070	1,393	1,551	4,141
Cod:							
Atlantic	31,422	14,253	26,634	28,619	12,981	24,464	42,298
Pacific	605,314	274,569	111,978	661,314	299,970	142,429	538,065
Crevalle (jack)	299	136	209	593	269	378	125
Croaker:							
Atlantic	19,950	9,049	7,069	27,413	12,434	8,834	11,901
Pacific (white)	533	242	317	368	167	224	582
Cusk	1,031	468	664	977	443	563	2,350
Dolphinfish	1,629	739	2,620	1,970	894	2,640	1,626
Eels, American	973	441	2,712	1,069	485	6,592	1,134
Flounders:							
Arrowtooth	23,495	10,657	1,500	13,934	6,320	831	26,913
Winter (blackback)	12,537	5,687	15,421	12,710	5,765	16,167	10,931
Plaice, American	9,693	4,397	12,365	8,680	3,937	11,405	11,696
Summer (fluke)	16,793	7,617	28,027	8,784	3,984	16,331	19,198
Sole:							
Dover	-	-	-	27,210	12,342	7,255	-
Flathead	25,114	11,392	7,534	28,367	12,867	2,773	14,642
Witch (gray)	4,591	2,082	7,728	3,913	1,775	6,570	5,215
Petrale	-	-	-	4,270	1,937	3,852	-
Rock	57,764	26,202	6,760	72,205	32,752	10,354	81,560
Yellowfin	223,445	101,354	42,471	329,150	149,301	25,694	236,001
Yellowtail	5,297	2,403	7,639	6,313	2,864	9,477	7,305
Atlantic/Gulf, Other	578	262	833	4,969	2,254	9,196	---
Pacific, Other	80,220	36,388	23,771	45,848	20,797	10,864	---
Total, flounders	***459,527***	***208,440***	***154,049***	***566,353***	***256,896***	***130,769***	***510,953***
Goosefish (anglerfish)	53,357	24,203	29,627	60,640	27,506	34,591	45,553
Groupers	9,703	4,401	22,409	10,276	4,661	23,665	11,400
Haddock	1,257	570	1,494	3,316	1,504	3,595	1,981
Hake:							
Pacific (whiting)	430,537	195,290	17,031	499,598	226,616	27,344	362,394
Red	2,397	1,087	695	2,929	1,329	790	3,613
Silver (Atl.whiting)	35,400	16,057	13,494	34,248	15,535	15,024	35,239
White	7,252	3,289	4,553	4,897	2,221	3,229	12,662
Halibut	49,092	22,268	83,468	69,864	31,690	117,362	56,684
Herring:							
Sea:							
Atlantic	197,124	89,415	11,194	211,010	95,714	11,543	135,934
Pacific	120,434	54,629	69,747	136,861	62,080	29,341	123,989
Thread	9,989	4,531	818	16,641	7,548	1,007	9,360
Jack mackerel	4,798	2,176	296	2,557	1,160	281	4,373
Lingcod	4,972	2,255	2,277	4,164	1,889	2,021	4,772
Mackerel:							
Atlantic	34,801	15,786	4,624	33,940	15,395	9,527	21,677
Chub	21,994	9,976	1,336	40,558	18,397	2,762	25,803
King and cero	4,560	2,068	5,880	5,544	2,515	7,606	4,684
Spanish	3,406	1,545	1,778	3,738	1,696	1,933	4,638

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Menhaden:							
Atlantic	671,664	304,665	39,677	656,666	297,862	40,009	713,286
Gulf	1,083,807	491,612	54,473	1,371,136	621,943	72,041	1,197,439
Total, menhaden	*1,755,471*	*796,276*	*94,150*	*2,027,802*	*919,805*	*112,050*	*1,910,725*
Mullets	17,026	7,723	12,518	19,637	8,907	13,419	24,650
Ocean perch:							
Atlantic	720	327	477	553	251	346	1,254
Pacific	46,305	21,004	6,171	43,166	19,580	3,186	40,519
Pollock:							
Atlantic	6,529	2,962	4,543	9,372	4,251	5,349	10,052
Walleye (Alaska)	2,623,131	1,189,844	238,129	2,512,455	1,139,642	242,589	2,962,080
Rockfishes:							
Bocaccio	-	-	-	1,596	724	610	-
Canary	-	-	-	2,782	1,262	1,369	-
Chilipepper	-	-	-	4,079	1,850	1,626	-
Widow	-	-	-	17,088	7,751	5,235	-
Yellowtail	-	-	-	6,051	2,745	2,227	-
Other	94,760	42,983	39,049	85,392	38,734	36,832	-
Total, rockfishes	*94,760*	*42,983*	*39,049*	*116,988*	*53,065*	*47,899*	*104,463*
Sablefish	59,949	27,193	109,009	52,925	24,007	108,776	70,022
Salmon, Pacific:							
Chinook or king	20,463	9,282	23,470	21,772	9,876	27,680	22,805
Chum or keta	180,573	81,907	29,442	103,163	46,794	22,775	152,836
Pink	309,839	140,542	26,723	226,995	102,964	26,470	333,311
Red or sockeye	318,443	144,445	266,422	192,460	87,299	177,284	342,890
Silver or coho	47,738	21,654	22,672	23,268	10,554	16,161	54,758
Total, salmon	*877,056*	*397,830*	*368,729*	*567,658*	*257,488*	*270,370*	*906,600*
Sardines:							
Pacific	71,657	32,503	3,053	94,393	42,816	4,071	38,897
Spanish	1,258	571	268	1,128	512	279	1,576
Scup or porgy	6,895	3,128	7,330	5,718	2,594	7,449	9,711
Sea bass:							
Black (Atlantic)	4,361	1,978	4,751	3,506	1,590	4,927	3,778
White (Pacific)	101	46	193	62	28	127	93
Sea trout or weakfish:							
Gray	7,189	3,261	4,839	7,314	3,318	4,136	6,860
Spotted	1,066	484	1,155	943	428	1,091	1,995
Sand (white)	168	76	94	161	73	91	275
Shad:							
American	3,819	1,732	1,832	3,058	1,387	1,272	3,158
Hickory	193	88	51	165	75	43	92
Sharks:							
Dogfish	65,342	29,639	11,804	46,345	21,022	7,307	49,298
Other	15,345	6,960	10,824	14,934	6,774	8,536	416
Sheepshead (Atlantic)	3,308	1,500	1,147	3,843	1,743	1,336	4,247
Skates	34,052	15,446	6,757	27,845	12,630	4,209	29,399
Smelts	1,747	792	895	3,076	1,395	1,075	2,932
Snapper:							
Red	4,422	2,006	9,529	5,161	2,341	10,365	3,679
Vermilion	-	-	-	1,630	739	3,245	-
Unclassified	5,235	2,375	10,155	3,840	1,742	7,884	6,759
Spearfish	210	95	230	220	100	190	137

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Spot	5,631	2,554	2,034	6,775	3,073	2,738	7,203
Striped bass	4,712	2,137	8,021	6,176	2,801	8,970	2,589
Swordfish	12,879	5,842	36,494	13,586	6,163	33,786	16,481
Tenpounder (ladyfish)	-	-	-	1,602	727	505	-
Tilefish	3,226	1,463	5,356	4,230	1,919	5,829	4,127
Trout, rainbow	371	168	50	303	137	242	563
Tuna:							
Albacore	34,053	15,446	30,157	28,824	13,074	24,684	20,716
Bigeye	6,254	2,837	23,673	6,985	3,168	21,231	6,165
Bluefin	12,148	5,510	21,857	7,265	3,295	20,207	5,598
Little (tunny)	197	89	53	994	451	359	582
Skipjack	14,717	6,676	7,084	15,874	7,200	8,688	11,878
Yellowfin	17,484	7,931	27,060	22,524	10,217	34,224	20,977
Unclassified	586	266	372	389	176	401	732
Total, tuna	*85,439*	*38,755*	*110,256*	*82,855*	*37,583*	*109,794*	*66,648*
Whitefish, lake	11,623	5,272	8,789	12,880	5,842	9,702	11,224
Wolffish, Atlantic	801	363	329	682	309	265	1,004
Yellow perch	1,568	711	3,822	1,371	622	2,851	2,788
Other marine finfishes	78,193	35,468	41,483	66,854	30,325	34,768	---
Other freshwater finfishes	11,503	5,218	3,520	15,045	6,824	4,875	---
Total, fish	*8,272,709*	*3,752,476*	*1,790,966*	*8,397,286*	*3,808,984*	*1,722,205*	---
Shellfish							
Abalone	56	25	2,157	45	20	1,056	96
Clams:							
Quahog (hard)	9,990	4,531	49,346	7,708	3,496	41,865	13,146
Geoduck (Pacific)	-	-	-	1,081	490	14,161	-
Manila	-	-	-	201	91	1,248	-
Ocean quahog	46,460	21,074	20,552	43,940	19,931	19,929	48,813
Softshell	2,200	998	8,253	2,299	1,043	9,929	3,162
Surf (Atlantic)	63,438	28,775	38,220	57,977	26,298	35,185	68,506
Other	1,151	522	11,428	978	444	7,369	---
Total, clams	*123,239*	*55,901*	*127,799*	*114,184*	*51,794*	*129,686*	*135,818*
Conch (snails)	6,669	3,025	3,871	2,258	1,024	2,854	4,391
Crabs:							
Blue: Hard	218,960	99,320	147,061	230,830	104,704	158,188	214,305
Soft and peeler	3,525	1,599	11,447	4,021	1,824	12,534	2,667
Dungeness	64,988	29,478	87,858	38,202	17,328	75,682	51,193
Jonah	736	334	346	1,643	745	806	1,212
King	21,000	9,526	62,560	18,028	8,177	50,576	18,284
Snow (tanner):							
Opilio	64,380	29,203	85,497	117,090	53,112	92,380	165,716
Bairdi	3,487	1,582	7,752	1,808	820	3,317	17,016
Other	14,721	6,677	24,184	18,341	8,319	36,064	---
Total, crabs	*391,797*	*177,718*	*426,705*	*429,963*	*195,030*	*429,547*	*486,227*
Crawfish (freshwater)	12,541	5,689	10,471	23,140	10,496	12,997	25,650
Horseshoe crab	3,522	1,598	1,134	5,748	2,607	1,197	1,527
Lobsters:							
American	71,641	32,496	241,796	83,921	38,066	267,216	61,958
Spiny	8,308	3,768	35,227	7,240	3,284	33,381	6,897
Mussels, b+A164lue (sea	5,837	2,648	4,248	4,532	2,056	2,288	6,282
Oysters	38,007	17,240	114,839	39,652	17,986	111,185	36,832

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1996 AND 1997 (1) - Continued

Species	1996			1997			Average (1992-96)
Shellfish - Continued	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Scallops							
Bay	35	16	94	72	33	310	249
Calico, Atlantic	-	-	-	1,613	732	3,601	603
Sea	18,162	8,238	101,823	13,789	6,255	90,291	21,001
Shrimp:							
New England	20,978	9,516	15,162	14,010	6,355	11,477	11,188
South Atlantic	40,437	18,342	66,366	25,638	11,629	68,655	31,884
Gulf	218,559	99,138	401,354	205,517	93,222	436,929	214,614
Pacific	36,867	16,723	26,155	45,054	20,436	26,817	49,614
Other	38	17	166	36	16	178	39
Total, shrimp	*316,879*	*143,735*	*509,203*	*290,255*	*131,659*	*544,056*	*307,339*
Squid:							
Atlantic:							
Illex	37,588	17,050	9,737	30,054	13,632	6,440	37,874
Loligo	27,536	12,490	18,661	35,630	16,162	26,476	41,579
Unclassified	124	56	116	493	224	427	1,674
Pacific:							
Loligo	174,785	79,282	31,712	156,348	70,919	22,056	110,885
Unclassified	-	-	-	1,258	571	82	-
Total Squid	*240,033*	*108,878*	*60,226*	*223,783*	*101,507*	*55,481*	*192,017*
Other shellfish	10,159	4,608	9,615	7,312	3,317	11,378	---
Total Shellfish	*1,246,885*	*565,583*	*1,649,208*	*1,247,507*	*565,865*	*1,696,524*	---
Other							
Sea urchins	44,932	20,381	44,740	44,568	20,216	39,330	60,974
Seaweed, unclassified	-	-	-	155,274	70,432	2,443	-
Kelp (w/herring eggs)	362	164	1,799	657	298	3,596	714
Worms	-	-	-	492	223	2,507	-
Total other	*45,294*	*20,545*	*46,539*	*200,991*	*91,169*	*47,876*	
Grand total	*9,564,888*	*4,338,605*	*3,486,713*	*9,845,784*	*4,466,018*	*3,466,605*	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

(-) Data are not available prior to 1997 for the production of "FUS."

Note:--Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046. Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1996 AND 1997

End Use	1996		1997	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food	6,752	70.6	6,558	66.6
For bait and animal food	302	3.2	319	3.2
Total	***8,887***	***92.9***	***9,198***	***93.4***
Canned:				
For human food	629	6.6	582	5.9
For bait and animal food	49	0.5	66	0.7
Total	***678***	***7.1***	***648***	***6.6***
Cured for human food	93	1.0	108	1.1
Reduction to meal, oil, etc	1,740	18.2	2,213	22.5
Grand total	***9,565***	***100.0***	***9,846***	***100.0***

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1997

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	379	5.2	86	3.3	465	4.7
February	1,378	19.0	58	2.2	1,436	14.6
March	666	9.2	42	1.6	708	7.2
April	390	5.4	66	2.5	456	4.6
May	590	8.1	241	9.3	831	8.4
June	425	5.9	395	15.2	820	8.3
July	630	8.7	370	14.2	1,000	10.2
August	621	8.6	400	15.4	1,021	10.4
September	1,115	15.4	422	16.2	1,537	15.6
October	638	8.8	318	12.2	956	9.7
November	253	3.5	111	4.3	364	3.7
December	163	2.2	89	3.4	252	2.6
Total	***7,248***	***100.0***	***2,598***	***100.0***	***9,846***	***100.0***

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1988-1997 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1988	4,588	3,362	2,604	158	7,192	3,520
1989	6,204	3,111	2,259	127	8,463	3,238
1990	7,041	3,366	2,363	156	9,404	3,522
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,248	3,304	2,598	163	9,846	3,467

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary. (2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food. * Record. Record--For industrial purposes 1983, 3,201 million lb.
NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY STATES, 1996 AND 1997 (1)

States	1996		1997		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama	26,579	38,342	23,076	38,311	1973	36,744
Alaska	5,012,875	1,190,576	4,765,002	1,066,555	1993	5,905,638
California	460,681	187,461	648,715	178,336	1936	1,760,193
Connecticut	20,949	48,409	19,396	49,515	1930	88,012
Delaware	5,958	4,397	8,649	5,325	1953	367,500
Florida	134,038	205,203	114,727	209,240	1938	241,443
Georgia	13,117	21,114	14,511	27,400	1927	47,607
Hawaii	31,870	64,288	36,568	68,693	1993	34,582
Illinois	202	415	154	241	-	(2)
Indiana	303	736	158	327	-	(2)
Louisiana	1,130,639	267,286	1,426,495	318,822	1984	1,931,027
Maine	236,567	200,930	244,059	223,244	1950	356,266
Maryland	69,179	52,720	76,627	64,321	1890	141,607
Massachusetts	236,550	231,380	229,991	214,706	1948	649,696
Michigan	14,174	9,228	15,874	9,623	1930	35,580
Minnesota	584	221	472	236	-	(2)
Mississippi	160,283	32,782	177,782	41,972	1985	439,518
New Hampshire	11,047	13,531	10,919	12,577	-	(2)
New Jersey	179,306	94,026	168,289	97,898	1956	540,060
New York	56,732	83,527	60,013	96,763	1880	335,000
North Carolina	193,828	110,057	229,729	101,729	1981	432,006
Ohio	4,258	1,984	3,970	2,199	1936	31,083
Oregon	264,113	84,186	273,503	80,423	1992	256,912
Pennsylvania	311	274	13	11	-	(2)
Rhode Island	136,708	69,919	138,693	74,813	1957	142,080
South Carolina	15,788	24,067	17,023	31,456	1965	26,611
Texas	91,593	190,860	85,650	203,137	1960	237,684
Virginia	659,651	106,016	611,515	104,998	1990	786,794
Washington	391,741	148,285	438,567	139,648	1994	527,804
Wisconsin	5,264	4,493	5,545	4,086	-	(2)
Total	***9,564,888***	***3,486,713***	***9,845,685***	***3,466,605***	-	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.
(2) Data not available.
NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1996 AND 1997 (1)

Region	1996		1997	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England	641,821	564,169	643,158	574,854
Middle Atlantic	241,936	181,869	236,951	199,986
Chesapeake	728,830	158,736	688,142	169,319
South Atlantic	268,990	209,407	298,683	213,385
Gulf	1,496,875	680,304	1,790,310	758,682
Pacific Coast and Alaska	6,129,410	1,610,508	6,125,787	1,464,962
Great Lakes	25,156	17,432	26,185	16,724
Hawaii	31,870	64,288	36,568	68,693
Total	***9,564,888***	***3,486,713***	***9,845,784***	***3,466,605***

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available.
NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1995-1997

Port	Quantity			Port	Value		
	1995	1996	1997		1995	1996	1997
	- Million pounds -				- Million dollars -		
Dutch Harbor-Unalaska, AK	684.6	579.6	587.8	Dutch Harbor-Unalaska, AK	146.2	118.7	122.6
Reedville, VA	(1)	(1)	491.9	New Bedford, MA	86.9	104.4	103.2
Empire-Venice, LA	298.1	316.5	395.9	Kodiak, AK	105.4	82.3	88.6
Cameron, LA	280.0	315.7	379.6	Empire-Venice, LA	51.1	45.4	57.8
Seattle, WA	229.0	241.2	336.1	Key West, FL	66.7	62.8	54.9
Kodiak, AK	362.4	202.7	277.5	Honolulu, HI	46.7	47.9	53.7
Intercoastal City, LA	179.2	199.0	270.8	Point Judith, RI	43.7	46.0	47.6
Morgan City-Berwick, LA	127.4	162.9	222.9	Brownsville-Port Isabel, TX	66.0	60.0	46.1
Los Angeles, CA	168.5	156.9	168.2	Portland, ME	39.4	38.6	43.2
Pascagoula-Moss Point, MS	128.6	148.0	164.7	Dulac-Chauvin, LA	53.4	45.2	42.1
Beaufort-Morehead City, NC	87.0	75.4	128.6	Cameron, LA	27.8	30.6	35.1
Astoria, OR	89.0	107.0	114.8	Kenai, AK	25.3	31.6	32.6
Port Hueneme-Oxnard-Ventura, CA	116.8	138.9	111.9	Los Angeles, CA	27.0	36.6	31.4
Newport, OR	112.0	115.0	107.7	Palacios, TX	21.0	25.0	30.4
New Bedford, MA	70.5	91.4	83.3	Cape May-Wildwood, NJ	30.5	30.9	29.7
Gloucester, MA	61.3	76.9	81.5	Reedville, VA	(1)	(1)	29.5
Point Judith, RI	89.6	79.0	74.9	Petersburg, AK	44.8	36.4	29.3
Portland, ME	66.7	78.3	74.8	Sitka, Ak	32.4	33.0	28.2
Cape May-Wildwood, NJ	75.4	82.7	71.1	Hampton Roads Area, VA	26.6	23.7	27.9
Petersburg, AK	83.0	105.0	70.1	Seward, AK	24.3	25.5	27.8
Rockland, ME	44.5	52.7	68.3	Naknek-King Salmon, AK	84.3	(1)	27.6
Ketchikan, AK	116.7	136.8	65.2	Cordova, AK	24.9	27.8	26.4
Cordova, AK	42.5	55.4	59.4	Bayou La Batre, AL	37.5	28.6	25.8
Moss Landings, CA	13.4	25.3	44.6	Golden Meadow-Leeville, LA	31.3	22.1	24.8
Ocean City, MD	12.5	(1)	42.4	Galveston, TX	38.0	37.0	24.2
Naknek-King Salmon, AK	120.9	(1)	41.5	Wanchese-Stumpy Point, NC	25.0	24.6	24.0
Atlantic City, NJ	42.3	40.9	39.0	Port Arthur, TX	22.0	27.0	23.9
Wanchese-Stumpy Point, NC	39.0	43.4	38.1	Beaufort-Morehead City, NC	35.0	20.3	23.7
Kenai, AK	35.0	37.9	36.5	San Francisco Area, CA	15.4	20.4	23.7
Seward, AK	24.4	29.2	32.8	Gloucester, MA	23.2	24.3	23.5
Crescent City, CA	21.8	26.4	32.7	Gulfport, MS	23.3	18.2	23.1
Dulac-Chauvin, LA	123.3	38.3	32.5	Astoria, OR	26.0	28.0	22.4
Point Pleasant, NJ	22.7	22.1	32.4	Seattle, WA	20.3	20.6	22.1
Westport, WA	24.0	45.6	31.3	Port Hueneme-Oxnard-Ventura, CA	26.8	34.8	21.7
Monterery, CA	18.6	24.9	30.7	Delcambre, LA	15.5	16.4	21.6
Honolulu, HI	23.9	22.9	30.2	Newport, OR	22.0	25.0	20.9
San Francisco Area, CA	15.7	19.2	29.4	Atlantic City, NJ	22.2	21.6	20.8
Bellingham, WA	27.0	21.4	24.8	Homer, AK	16.3	18.9	19.9
Homer, AK	23.3	21.8	24.6	Ketchikan, AK	33.6	23.7	19.6
Hampton Roads Area, VA	12.6	11.9	23.6	Westport, WA	25.0	31.0	19.6
Coos Bay-Charleston, OR	21.0	24.0	21.5	Morgan City-Berwick, LA	11.3	14.2	19.1
Sitka, Ak	31.0	32.0	21.3	Tampa Bay-St. Petersburg, FL	18.2	20.0	17.6
Eureka, CA	15.1	18.0	19.7	Aransas Pass-Rockport, TX	33.0	24.0	17.4
Key West, FL	23.4	23.7	18.8	Bellingham, WA	15.0	14.0	17.2
Provincetown-Chatham, MA	18.4	17.8	16.8	Point Pleasant, NJ	11.8	13.1	16.8
Golden Meadow-Leeville, LA	18.7	14.1	15.1	Fort Myers, FL	15.9	19.3	16.0
Englehard-Swanquarter, NC	11.0	15.0	14.7	Delacroix-Yscloskey, LA	12.8	10.9	15.8
Delacroix-Yscloskey, LA	9.3	10.1	13.9	Grand Isle, LA	17.8	18.1	15.8
Brownsville-Port Isabel, TX	16.0	22.0	13.8	Cape Canaveral, FL	16.9	17.7	15.6
Fort Bragg, CA	11.8	10.9	13.8	Intercoastal City, LA	10.1	11.1	15.5
Montauk, NY	6.4	8.9	13.6	Freeport, TX	15.0	14.0	15.2
Wrangell, AK	17.2	25.1	13.4	Charleston-Mt. Pleasant, SC	19.0	10.8	14.6
Oriental-Vandemere, NC	9.0	14.0	13.2	Crescent City, CA	11.5	16.8	14.3
Ilwaco-Chinook, WA	18.0	23.9	13.1	Montauk, NY	8.5	10.1	13.5
Hampton Bay-Shinnicock, NY	11.9	11.6	12.9	Pascagoula-Moss Point, MS	12.3	10.4	13.4
Grand Isle, LA	12.6	13.9	12.7	Eureka, CA	10.3	12.3	12.7
Galveston, TX	17.0	21.0	12.5	Apalachicola, FL	10.2	14.1	12.3
Belhaven-Washington, NC	10.0	14.2	12.4	Coos Bay-Charleston, OR	14.0	16.0	12.1
Bayou La Batre, AL	22.1	20.4	12.1	Oriental-Vandemere, NC	10.0	13.3	11.2
Delcambre, LA	8.6	9.3	11.9	Darien-Bellville, GA	11.0	8.7	10.7

(1) Not available or confidential data.

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity were 848.2 million pounds in Los Angeles, CA in 1960 and for value were $224.1 million in Dutch Harbor-Unalaska, AK in 1994.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives	1,154	192	6	1	-	-	1,160	193
Anchovies	9,586	631	3,152	196	-	-	12,738	827
Atka mackerel	(3)	(3)	131,257	6,999	-	-	131,257	6,999
Bluefish	5,667	1,770	3,640	1,080	-	-	9,307	2,850
Blue runner	305	181	47	17	-	-	352	198
Bonito	175	89	818	316	-	-	993	405
Butterfish	942	559	6,602	4,553	-	-	7,544	5,112
Catfish & bullheads	15,150	9,615	-	-	-	-	15,150	9,615
Chubs	3,070	1,551	-	-	-	-	3,070	1,551
Cod:								
Atlantic	300	253	28,320	24,210	-	-	28,620	24,463
Pacific	50,756	10,151	610,558	132,278	-	-	661,314	142,429
Crevalle	247	171	346	207	-	-	593	378
Croaker:					-	-		
Atlantic	17,560	5,631	9,853	3,202	-	-	27,413	8,833
Pacific (white)	70	42	298	181	-	-	368	223
Cusk	11	6	966	557	-	-	977	563
Dolphinfish	38	50	1,922	2,581	10	10	1,970	2,641
Eel, American	1,055	6,585	14	8	-	-	1,069	6,593
Flounders:								
Arrowtooth	1,059	86	12,875	745	-	-	13,934	831
Winter (blackback)	1,636	2,140	11,074	14,028	-	-	12,710	16,168
Plaice, American	677	872	8,004	10,533	-	-	8,681	11,405
Summer (fluke)	1,326	2,862	7,458	13,469	-	-	8,784	16,331
Sole:								
Dover	3,939	1,203	23,271	6,052	-	-	27,210	7,255
Flathead	371	49	27,996	2,724	-	-	28,367	2,773
Witch (gray)	173	296	3,740	6,274	-	-	3,913	6,570
Petrale	892	813	3,378	3,039	-	-	4,270	3,852
Rock	1,320	267	70,885	10,087	-	-	72,205	10,354
Yellowfin	45	2	329,105	25,692	-	-	329,150	25,694

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Flounders - Continued:								
Yellowtail	205	294	6,108	9,183	-	-	6,313	9,477
Atlantic/Gulf, other	4,844	9,119	125	77	-	-	4,969	9,196
Pacific, other	2,404	793	43,445	10,071	-	-	45,849	10,864
Total flounders	***18,891***	***18,796***	***547,464***	***111,974***	-	-	***566,355***	***130,770***
Goosefish (anglerfish)	1,041	671	59,599	33,920	-	-	60,640	34,591
Groupers	437	1,015	9,841	22,653	-	-	10,278	23,668
Haddock	32	35	3,283	3,560	-	-	3,315	3,595
Hakes:								
Pacific (whiting)	-	-	499,598	27,344	-	-	499,598	27,344
Red	108	24	2,821	766	-	-	2,929	790
Silver (Atl. whiting)	1,546	437	32,702	14,586	-	-	34,248	15,023
White	77	51	4,820	3,177	-	-	4,897	3,228
Halibut	4,705	8,003	65,513	109,989	14	28	70,232	118,020
Herring:								
Sea:								
Atlantic	66,188	3,784	149,237	7,958	-	-	215,425	11,742
Pacific	136,861	29,341	-	-	-	-	136,861	29,341
Thread	16,641	1,007	-	-	-	-	16,641	1,007
Jack mackerel	1,125	124	1,431	157	-	-	2,556	281
Lingcod	1,163	565	3,000	1,456	-	-	4,163	2,021
Mackerels:								
Atlantic	1,209	422	32,730	9,105	-	-	33,939	9,527
Chub	40,543	2,759	16	3	-	-	40,559	2,762
King and cero	700	944	4,844	6,663	-	-	5,544	7,607
Spanish	1,492	774	2,246	1,159	-	-	3,738	1,933
Menhaden:								
Atlantic	656,158	39,944	508	65	-	-	656,666	40,009
Gulf	1,063,735	56,201	307,401	15,840	-	-	1,371,136	72,041
Total menhaden	***1,719,893***	***96,145***	***307,909***	***15,905***	-	-	***2,027,802***	***112,050***
Mullets	19,447	13,248	190	171	-	-	19,637	13,419
Ocean perch:								
Atlantic	(3)	(3)	553	346	-	-	553	346
Pacific	79	5	43,087	3,182	-	-	43,166	3,187

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Pollock:								
Atlantic	93	53	9,279	5,296	-	-	9,372	5,349
Walleye (Alaska)	75,130	7,343	2,437,325	235,246	-	-	2,512,455	242,589
Rockfishes:								
Bocaccio	115	50	1,481	560	-	-	1,596	610
Canary	101	67	2,681	1,302	-	-	2,782	1,369
Chilipepper	1,014	405	3,065	1,221	-	-	4,079	1,626
Widow	59	20	17,029	5,215	-	-	17,088	5,235
Yellowtail	321	153	5,730	2,074	-	-	6,051	2,227
Other	3,157	1,384	82,235	35,448	-	-	85,392	36,832
Total rockfishes	***4,767***	***2,079***	***112,221***	***45,820***	***-***	***-***	***116,988***	***47,899***
Sablefish	8,628	18,159	44,297	90,618	-	-	52,925	108,777
Salmon:								
Chinook or king	17,802	22,763	3,971	4,917	-	-	21,773	27,680
Chum or keta	103,152	22,772	12	3	-	-	103,164	22,775
Pink	226,988	26,468	7	1	-	-	226,995	26,469
Red or sockeye	192,444	177,266	16	18	-	-	192,460	177,284
Silver or coho	22,388	15,159	880	1,002	-	-	23,268	16,161
Total salmon	***562,774***	***264,429***	***4,886***	***5,941***	***-***	***-***	***567,660***	***270,370***
Sardines:								
Pacific	66,075	2,850	28,318	1,221	-	-	94,393	4,071
Spanish	1,128	279	-	-	-	-	1,128	279
Scup or porgy	2,057	2,823	3,660	4,626	-	-	5,717	7,449
Sea bass:								
Black (Atlantic)	526	839	2,980	4,088	-	-	3,506	4,927
White (Pacific)	20	42	42	85	-	-	62	127
Sea trout or weakfish:								
Gray	5,442	3,091	1,872	1,045		-	7,314	4,136
Spotted	942	1,091	-	-	-	-	942	1,091
Sand (white)	130	81	32	10	-	-	162	91
Shad:					-	-		
American	2,983	1,231	75	40	-	-	3,058	1,271
Hickory	155	42	10	2	-	-	165	44

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Sharks:								
Dogfish	9,061	1,470	37,284	5,837	-	-	46,345	7,307
Other	1,672	767	11,192	6,920	2,070	849	14,934	8,536
Sheepshead (Atlantic)	3,829	1,328	14	7	-	-	3,843	1,335
Skates	7,896	1,250	19,949	2,959	-	-	27,845	4,209
Smelts	3,076	1,075	-	-	-	-	3,076	1,075
Snappers:								
Red	211	972	4,950	9,392	-	-	5,161	10,364
Vermilion	7	14	1,623	3,231	-	-	1,630	3,245
Unclassified	744	1,563	3,150	6,438	-	-	3,894	8,001
Spearfish	11	10	143	124	66	57	220	191
Spot	6,730	2,722	45	16	-	-	6,775	2,738
Striped bass	6,034	8,795	142	175	-	-	6,176	8,970
Swordfish	1,186	2,625	9,084	23,985	3,316	7,176	13,586	33,786
Tenpounder (ladyfish)	1,571	490	31	14	-	-	1,602	504
Tilefish	3	2	4,227	5,827	-	-	4,230	5,829
Trout, Rainbow	303	242	-	-	-	-	303	242
Tuna:								
Albacore	6	3	20,641	17,696	21,036	17,916	41,683	35,615
Bigeye	15	37	5,107	15,580	9,558	9,244	14,680	24,861
Bluefin	1	3	4,757	18,409	2,507	1,794	7,265	20,206
Little tunny	274	84	720	276	-	-	994	360
Skipjack	249	320	2,254	2,783	244,753	107,221	247,256	110,324
Yellowfin	267	628	9,851	22,830	131,473	77,883	141,591	101,341
Unclassified	13	22	251	330	2,909	1,271	3,173	1,623
Total tuna	*825*	*1,097*	*43,581*	*77,904*	*412,236*	*215,329*	*456,642*	*294,330*
Whitefish, common	12,880	9,702	-	-	-	-	12,880	9,702
Wolffish, Atlantic	5	2	677	263	-	-	682	265
Yellow perch	1,371	2,851	-	-	-	-	1,371	2,851
Other marine finfishes	33,922	18,995	32,211	14,756	722	1,019	66,855	34,770
Other freshwater finfishes	15,045	4,875	-	-	-	-	15,045	4,875
Total finfish	*2,975,497*	*580,906*	*5,381,983*	*1,102,346*	*418,434*	*224,468*	*8,775,914*	*1,907,720*

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Shellfish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Abalone	45	1,056	-	-	-	-	45	1,056
Clams:								
Quahog (hard)	7,708	41,865	-	-	-	-	7,708	41,865
Geoduck (Pacific)	1,081	14,161	-	-	-	-	1,081	14,161
Manila (Pacific)	201	1,248	-	-	-	-	201	1,248
Ocean quahog	2,758	1,806	41,181	18,123	-	-	43,939	19,929
Softshell	2,299	9,929	-	-	-	-	2,299	9,929
Surf (Atlantic)	21,187	13,987	36,791	21,198	-	-	57,978	35,185
Other	978	7,369	-	-	-	-	978	7,369
Total clams	***36,211***	***90,366***	***77,972***	***39,321***	**-**	**-**	***114,183***	***129,687***
Conch (snails)	1,891	2,454	368	400	-	-	2,259	2,854
Crabs:								
Blue: Hard	230,804	158,173	26	15	-	-	230,830	158,188
Soft or peeler	4,022	12,527	-	-	-	-	4,022	12,527
Dungeness	36,227	71,783	1,974	3,899	-	-	38,201	75,682
Jonah	1,196	592	447	214	-	-	1,643	806
King	702	2,105	17,325	48,471	-	-	18,027	50,576
Snow (tanner):								
Opilio	(3)	1	117,089	92,379	-	-	117,089	92,380
Bairdi	1,808	3,317	-	-	-	-	1,808	3,317
Other	7,057	8,010	11,284	28,054	-	-	18,341	36,064
Total crabs	***281,816***	***256,509***	***148,145***	***173,032***	**-**	**-**	***429,961***	***429,541***
Crawfish, freshwater	23,140	12,997	-	-	-	-	23,140	12,997
Horseshoe crab	4,811	986	937	211	-	-	5,748	1,197
Lobsters:								
American	72,031	224,872	11,890	42,344	-	-	83,921	267,216
Spiny	2,843	14,936	4,396	18,445	-	-	7,239	33,381
Mussels, blue (sea)	4,532	2,288	-	-	-	-	4,532	2,288
Oysters	39,652	111,185	-	-	-	-	39,652	111,185

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand total	
	0 to 3 miles		3 to 200 miles					
Shellfish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Scallops:								
Bay	72	310	-	-	-	-	72	310
Calico, Atlantic	170	274	1,444	3,327	-	-	1,614	3,601
Sea	812	5,994	12,977	84,297	-	-	13,789	90,291
Shrimp:								
New England	4,211	3,427	9,800	8,050	-	-	14,011	11,477
South Atlantic	22,482	62,832	3,159	5,823	-	-	25,641	68,655
Gulf	118,252	200,510	87,264	236,419	-	-	205,516	436,929
Pacific	30,546	18,966	14,508	7,852	-	-	45,054	26,818
Other	11	51	21	110	3	17	35	178
Total shrimp	***175,502***	***285,786***	***114,752***	***258,254***	***3***	***17***	***290,257***	***544,057***
Squid:								
Atlantic:								
Illex	289	80	29,765	6,360	-	-	30,054	6,440
Loligo	3,871	2,933	31,759	23,543	-	-	35,630	26,476
Unclassified	240	213	253	214	-	-	493	427
Pacific:								
Loligo	156,348	22,056	-	-	-	-	156,348	22,056
Unclassified	274	55	984	27	-	-	1,258	82
Total, squid	***161,021***	***25,337***	***62,761***	***30,144***	-	-	***223,782***	***55,481***
Other shellfish	*5,860*	*9,005*	*1,456*	*2,373*	-	-	7,316	11,378
Total shellfish	***810,408***	***1,044,355***	***437,098***	***652,148***	***3***	***17***	***1,247,509***	***1,696,520***
Other								
Sea urchin	44,568	39,330	-	-	-	-	44,568	39,330
Seaweed, unclassified	155,274	2,443	-	-	-	-	155,274	2,443
Kelp (with herring eggs)	657	3,596	-	-	-	-	657	3,596
Worms	492	2,507	-	-	-	-	492	2,507
Total other	***200,991***	***47,876***	-	-	-	-	***200,991***	***47,876***
Grand total, 1997	***3,986,896***	***1,673,137***	***5,819,081***	***1,754,494***	***418,437***	***224,485***	***10,224,414***	***3,652,116***
Grand total, 1996	***3,079,271***	***1,653,996***	***6,475,732***	***1,800,293***	***414,416***	***191,854***	***9,969,419***	***3,646,143***

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River drainage area States. (3) Less than 500 lb or $500.
NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	524	192	3	1	-	-	526	193
Anchovies	4,348	631	1,430	196	-	-	5,778	827
Atka mackerel	(3)	(3)	59,538	6,999	-	-	59,538	6,999
Bluefish	2,571	1,770	1,651	1,080	-	-	4,222	2,850
Blue runner	138	181	21	17	-	-	160	198
Bonito	79	89	371	316	-	-	451	405
Butterfish	427	559	2,995	4,553	-	-	3,422	5,112
Catfish & bullheads	6,872	9,615	-	-	-	-	6,872	9,615
Chubs	1,392	1,551	-	-	-	-	1,392	1,551
Cod:								
Atlantic	136	253	12,846	24,210	-	-	12,982	24,463
Pacific	23,023	10,151	276,947	132,278	-	-	299,970	142,429
Crevalle	112	171	157	207	-	-	269	378
Croaker:								
Atlantic	7,965	5,631	4,469	3,202	-	-	12,434	8,833
Pacific (white)	32	42	135	181	-	-	167	223
Cusk	5	6	438	557	-	-	443	563
Dolphinfish	17	50	872	2,581	5	10	894	2,641
Eel, American	479	6,585	6	8	-	-	485	6,593
Flounders:								
Arrowtooth	480	86	5,840	745	-	-	6,320	831
Winter (blackback)	742	2,140	5,023	14,028	-	-	5,765	16,168
Plaice, American	307	872	3,631	10,533	-	-	3,938	11,405
Summer (fluke)	602	2,862	3,383	13,469	-	-	3,984	16,331
Sole:								
Dover	1,787	1,203	10,556	6,052	-	-	12,342	7,255
Flathead	168	49	12,699	2,724	-	-	12,867	2,773
Witch (gray)	78	296	1,696	6,274	-	-	1,775	6,570
Petrale	405	813	1,532	3,039	-	-	1,937	3,852
Rock	599	267	32,153	10,087	-	-	32,752	10,354
Yellowfin	20	2	149,281	25,692	-	-	149,301	25,694

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Flounders - Continued:								
Yellowtail.....	93	294	2,771	9,183	-	-	2,864	9,477
Atlantic/Gulf, other..	2,197	9,119	57	77	-	-	2,254	9,196
Pacific, other.....	1,090	793	19,707	10,071	-	-	20,797	10,864
Total flounders...	***8,569***	***18,796***	***248,328***	***111,974***	**-**	**-**	***256,897***	***130,770***
Goosefish (anglerfish)..	472	671	27,034	33,920	-	-	27,506	34,591
Groupers.....	198	1,015	4,464	22,653	-	-	4,662	23,668
Haddock.....	15	35	1,489	3,560	-	-	1,504	3,595
Hakes:								
Pacific (whiting).....	-	-	226,616	27,344	-	-	226,616	27,344
Red.....	49	24	1,280	766	-	-	1,329	790
Silver (Atl. whiting).	701	437	14,834	14,586	-	-	15,535	15,023
White.....	35	51	2,186	3,177	-	-	2,221	3,228
Halibut.....	2,134	8,003	29,717	109,989	6	28	31,857	118,020
Herring:								
Sea:								
Atlantic.....	30,023	3,784	67,693	7,958	-	-	97,716	11,742
Pacific.....	62,080	29,341	0	-	-	-	62,080	29,341
Thread.....	7,548	1,007	0	-	-	-	7,548	1,007
Jack mackerel.....	510	124	649	157	-	-	1,160	281
Lingcod.....	528	565	1,361	1,456	-	-	1,888	2,021
Mackerels:								
Atlantic.....	549	422	14,846	9,105	-	-	15,395	9,527
Chub.....	18,390	2,759	7	3	-	-	18,397	2,762
King and cero.....	318	944	2,197	6,663	-	-	2,515	7,607
Spanish.....	677	774	1,019	1,159	-	-	1,696	1,933
Menhaden:								
Atlantic.....	297,631	39,944	230	65	-	-	297,862	40,009
Gulf.....	482,507	56,201	139,436	15,840	-	-	621,943	72,041
Total menhaden....	***780,138***	***96,145***	***139,667***	***15,905***	-	-	***919,805***	***112,050***
Mullets.....	8,821	13,248	86	171	-	-	8,907	13,419
Ocean perch:								
Atlantic.....	(3)	(3)	251	346	-	-	251	346
Pacific.....	36	5	19,544	3,182	-	-	19,580	3,187

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Pollock:								
Atlantic	42	53	4,209	5,296	-	-	4,251	5,349
Walleye (Alaska)	34,079	7,343	1,105,563	235,246	-	-	1,139,642	242,589
Rockfishes:								
Bocaccio	52	50	672	560	-	-	724	610
Canary	46	67	1,216	1,302	-	-	1,262	1,369
Chilipepper	460	405	1,390	1,221	-	-	1,850	1,626
Widow	27	20	7,724	5,215	-	-	7,751	5,235
Yellowtail	146	153	2,599	2,074	-	-	2,745	2,227
Other	1,432	1,384	37,302	35,448	-	-	38,734	36,832
Total rockfishes	***2,163***	***2,079***	***50,903***	***45,820***	**-**	**-**	***53,066***	***47,899***
Sablefish	3,914	18,159	20,093	90,618	-	-	24,007	108,777
Salmon:								
Chinook or king	8,075	22,763	1,801	4,917	-	-	9,876	27,680
Chum or keta	46,789	22,772	5	3	-	-	46,795	22,775
Pink	102,961	26,468	3	1	-	-	102,964	26,469
Red or sockeye	87,292	177,266	7	18	-	-	87,299	177,284
Silver or coho	10,155	15,159	399	1,002	-	-	10,554	16,161
Total salmon	***255,272***	***264,429***	***2,216***	***5,941***	**-**	**-**	***257,489***	***270,370***
Sardines:								
Pacific	29,971	2,850	12,845	1,221	-	-	42,816	4,071
Spanish	512	279	-	-	-	-	512	279
Scup or porgy	933	2,823	1,660	4,626	-	-	2,593	7,449
Sea bass:								
Black (Atlantic)	239	839	1,352	4,088	-	-	1,590	4,927
White (Pacific)	9	42	19	85	-	-	28	127
Sea trout or weakfish:								
Gray	2,468	3,091	849	1,045	-	-	3,317	4,136
Spotted	427	1,091	-	-	-	-	427	1,091
Sand (white)	59	81	15	10	-	-	73	91
Shad:					-	-		
American	1,353	1,231	34	40	-	-	1,387	1,271
Hickory	70	42	5	2	-	-	75	44

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Sharks:								
Dogfish	4,110	1,470	16,912	5,837	–	–	21,022	7,307
Other	759	767	5,077	6,920	939	849	6,774	8,536
Sheepshead (Atlantic)	1,737	1,328	6	7	–	–	1,743	1,335
Skates	3,582	1,250	9,049	2,959	–	–	12,630	4,209
Smelts	1,395	1,075	–	–	–	–	1,395	1,075
Snappers:								
Red	96	972	2,245	9,392	–	–	2,341	10,364
Vermilion	3	14	736	3,231	–	–	740	3,245
Unclassified	337	1,563	1,429	6,438	–	–	1,766	8,001
Spearfish	5	10	65	124	30	57	100	191
Spot	3,053	2,722	20	16	–	–	3,073	2,738
Striped bass	2,737	8,795	64	175	–	–	2,802	8,970
Swordfish	538	2,625	4,120	23,985	1,504	7,176	6,163	33,786
Tenpounder (ladyfish)	713	490	14	14	–	–	727	504
Tilefish	1	2	1,917	5,827	–	–	1,918	5,829
Trout, rainbow	137	242	–	–	–	–	137	242
Tuna:								
Albacore	3	3	9,363	17,696	9,542	17,916	18,907	35,615
Bigeye	7	37	2,317	15,580	4,335	9,244	6,659	24,861
Bluefin	(3)	3	2,158	18,409	1,137	1,794	3,295	20,206
Little tunny	124	84	327	276	–	–	451	360
Skipjack	113	320	1,022	2,783	111,019	107,221	112,154	110,324
Yellowfin	121	628	4,468	22,830	59,636	77,883	64,225	101,341
Unclassified	6	22	114	330	1,320	1,271	1,439	1,623
Total tuna	***374***	***1,097***	***19,768***	***77,904***	***186,989***	***215,329***	***207,131***	***294,330***
Whitefish, common	5,842	9,702	–	–	–	–	5,842	9,702
Wolffish, Atlantic	2	2	307	263	0	–	309	265
Yellow perch	622	2,851	–	–	–	–	622	2,851
Other marine finfishes	15,387	18,995	14,611	14,756	327	1,019	30,325	34,770
Other freshwater finfishes	6,825	4,875	–	–	–	–	6,825	4,875
Total finfish	***1,349,677***	***580,906***	***2,441,251***	***1,102,346***	***189,800***	***224,468***	***3,980,729***	***1,907,720***

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Shellfish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Abalone	20	1,056	-	-	-	-	20	1,056
Clams:								
Quahog (hard)	3,496	41,865	-	-	-	-	3,496	41,865
Geoduck (Pacific)	490	14,161	-	-	-	-	490	14,161
Manila (Pacific)	91	1,248	-	-	-	-	91	1,248
Ocean quahog	1,251	1,806	18,680	18,123	-	-	19,931	19,929
Softshell	1,043	9,929	-	-	-	-	1,043	9,929
Surf (Atlantic)	9,610	13,987	16,688	21,198	-	-	26,298	35,185
Other	443	7,369	-	-	-	-	443	7,369
Total clams	***16,425***	***90,366***	***35,368***	***39,321***	***-***	***-***	***51,793***	***129,687***
Conch (snails)	858	2,454	167	400	-	-	1,024	2,854
Crabs:								
Blue: Hard	104,692	158,173	12	15	-	-	104,704	158,188
Soft or peeler	1,824	12,527	-	-	-	-	1,824	12,527
Dungeness	16,433	71,783	895	3,899	-	-	17,328	75,682
Jonah	543	592	203	214	-	-	745	806
King	319	2,105	7,859	48,471	-	-	8,177	50,576
Snow (tanner):								
Opilio	(3)	1	53,111	92,379	-	-	53,111	92,380
Bairdi	820	3,317	-	-	-	-	820	3,317
Other	3,201	8,010	5,118	28,054	-	-	8,319	36,064
Total crabs	***127,831***	***256,509***	***67,198***	***173,032***	***-***	***-***	***195,029***	***429,541***
Crawfish, freshwater	10,496	12,997	-	-	-	-	10,496	12,997
Horseshoe crab	2,182	986	425	211	-	-	2,607	1,197
Lobsters:								
American	32,673	224,872	5,393	42,344	-	-	38,066	267,216
Spiny	1,290	14,936	1,994	18,445	-	-	3,284	33,381
Mussels, blue (sea)	2,056	2,288	-	-	-	-	2,056	2,288
Oysters	17,986	111,185	-	-	-	-	17,986	111,185

See footnote at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1997 (1)

Species	Distance from U.S. shores				High seas or off foreign shores		Grand Total	
	0 to 3 miles		3 to 200 miles					
Shellfish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Scallops:								
Bay	32	310	-	-	-	-	32	310
Calico, Atlantic	77	274	655	3,327	-	-	732	3,601
Sea	368	5,994	5,886	84,297	-	-	6,255	90,291
Shrimp:								
New England	1,910	3,427	4,445	8,050	-	-	6,355	11,477
South Atlantic	10,198	62,832	1,433	5,823	-	-	11,631	68,655
Gulf	53,639	200,510	39,583	236,419	-	-	93,221	436,929
Pacific	13,856	18,966	6,581	7,852	-	-	20,436	26,818
Other	5	51	10	110	1	17	16	178
Total shrimp	***79,607***	***285,786***	***52,051***	***258,254***	***1***	***17***	***131,660***	***544,057***
Squid:								
Atlantic:								
Illex	131	80	13,501	6,360	-	-	13,632	6,440
Loligo	1,756	2,933	14,406	23,543	-	-	16,161	26,476
Unclassified	109	213	115	214	-	-	224	427
Pacific:								
Loligo	70,919	22,056	-	-	-	-	70,919	22,056
Unclassified	124	55	446	27	-	-	571	82
Total, squid	73,039	25,337	28,468	30,144	-	-	101,507	55,481
Other shellfish	2,658	9,005	660	2,373	-	-	3,319	11,378
Total shellfish	***367,599***	***1,044,355***	***198,266***	***652,148***	***1***	***17***	***565,866***	***1,696,520***
Other								
Sea urchin	20,216	39,330	-	-	-	-	20,216	39,330
Seaweed, unclassified	70,432	2,443	-	-	-	-	70,432	2,443
Kelp (with herring eggs)	298	3,596	-	-	-	-	298	3,596
Worms	223	2,507	-	-	-	-	223	2,507
Total other	***91,169***	***47,876***	-	-	-	-	***91,169***	***47,876***
Grand total, 1997	***1,808,444***	***1,673,137***	***2,639,518***	***1,754,494***	***189,802***	***224,485***	***4,637,764***	***3,652,116***
Grand total, 1996	***1,396,748***	***1,653,996***	***2,937,373***	***1,800,293***	***187,978***	***191,854***	***4,522,099***	***3,646,143***

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River drainage area States. (3) Less than 500 mt or $500.
NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S-flag vessels transferred to internal water processing vessels (IWPs) in U.S. waters. Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters and clams.

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	Puerto Rico		Guam	
Fish	Pounds	Dollars	Pounds	Dollars
Amberjack	-	-	168	388
Ballyhoo	48,256	53,443	-	-
Barracuda	23,973	32,963	2,019	3,788
Dolphinfish	166,477	238,311	95,349	176,203
Emperors	-	-	2,722	7,900
Goatfish	15,553	23,446	12	33
Groupers	48,797	90,885	1,047	2,846
Grouper, red hind	40,886	80,749	-	-
Grunts	150,104	206,303	-	-
Hogfish	61,004	122,009	-	-
Jacks, unclassified	71,420	84,097	2,296	5,817
Mackerel, king and cero	186,234	268,177	-	-
Margate	-	-	-	-
Marlin	-	-	52,581	61,525
Mojarra	20,009	24,861	-	-
Mullet (black or silver)	52,307	60,415	225	632
Nassau grouper	10,123	16,247	-	-
Parrotfish	100,516	147,004	1,605	4,441
Reef fish	-	-	37,363	107,441
Sailfish	-	-	1,054	1,450
Scup or porgy	23,507	33,439	-	-
Scad, bigeye	-	-	7,129	18,958
Sharks, other	41,816	52,897	25	35
Snappers:				
Ehu			-	-
Lane	259,064	388,596	-	-
Lehi	-	-	-	-
Mutton	74,394	132,236	-	-
Onaga	-	-	-	-
Opakapakas	-	-	-	-
Silk	196,494	444,077	-	-
Yellowtail	220,116	393,457	-	-
Other	66,900	125,939	3,450	11,707
Total snappers	***816,968***	***1,484,305***	***3,450***	***11,707***
Snook	51,421	70,062	-	-
Spanish sardine	31,203	30,501	-	-
Squirrelfish	17,946	22,746	40	120
Sturgeonfishes	-	-	-	-
Tarpon	1,637	360	-	-
Triggerfish	53,586	83,326	-	-
Trunkfish, boxfish	73,439	137,514	-	-
Tuna:				
Skipjack	-	-	53,652	69,924
Yellowfin	-	-	37,564	80,586
Unclassified	199,283	222,200	3,829	6,332
Total tuna	***199,283***	***222,200***	***95,045***	***156,842***

(Continued on next page)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	Puerto Rico		Guam	
	Pounds	Dollars	Pounds	Dollars
Wahoo	-	-	44,495	100,416
Other marine finfishes	464,236	518,084	1,977	3,911
Freshwater fish, other	-	-	-	-
Total, fish	***2,770,701***	***4,104,344***	***348,602***	***664,453***
Shellfish				
Crabs, other	9,407	36,711	10	39
Lobster, spiny	214,284	853,387	583	2,103
Conch (snail) meats	186,976	422,098	-	-
Oysters	791	920	-	-
Octopus	36,613	63,798	-	-
Other shellfish	6,986	17,517	259	871
Total, shellfish, et al	***455,057***	***1,394,431***	***852***	***3,013***
Grand total	***3,225,758***	***5,498,775***	***349,454***	***667,466***

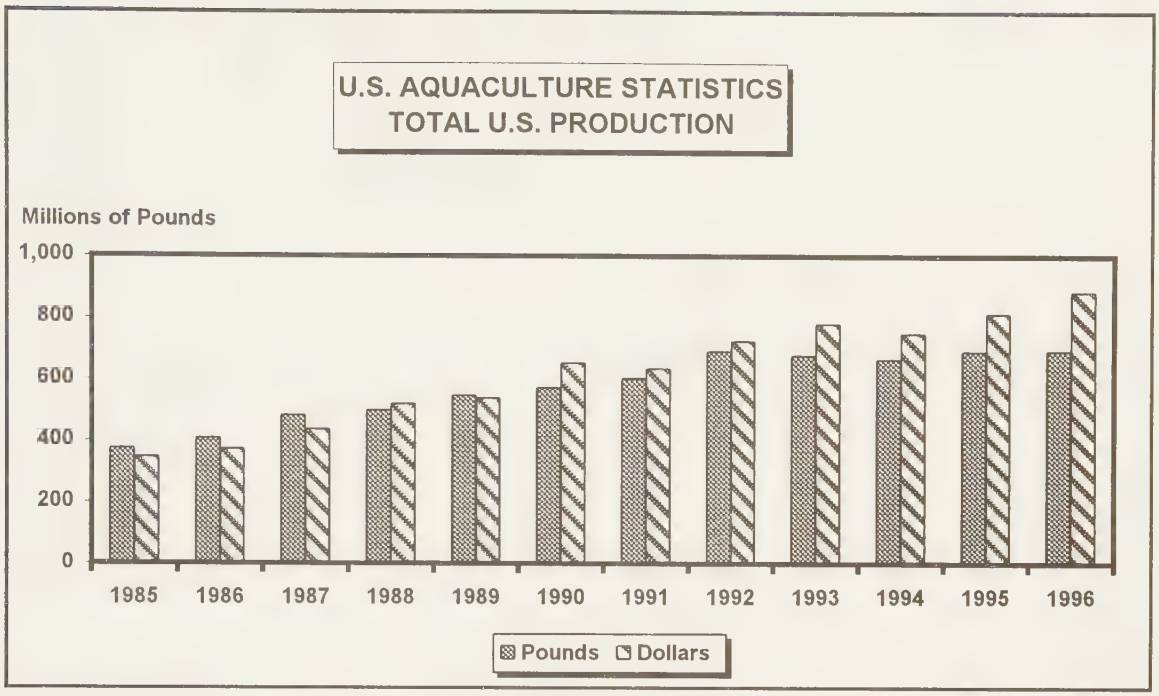
Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Amberjack	63	127	-	-
Barracuda	8,781	16,101	221	484
Dolphinfish	36,881	55,394	38,442	80,300
Emperors	4,837	9,902	29,226	83,939
Goatfish	5	6	20,194	41,558
Groupers	4,163	8,586	11,082	34,137
Grunts	53	66	-	-
Jacks, unclassified	3,354	7,064	4,097	13,579
Marlin	40,818	51,022	8,632	15,912
Mullet (black or silver)	8	17	496	1,256
Parrotfish	5,779	11,465	14,410	38,587
Reef fish	17,131	33,899	176,579	403,635
Sailfish	7,301	10,952	124	248
Scad, bigeye	90	179	9,264	28,711
Sharks, other	7,898	8,798	-	-
Snappers:				
Ehu	-	-	-	-
Lehi	-	-	-	-
Onaga	-	-	-	-
Opakapakas	-	-	-	-
Yellowtail	-	-	-	-
Other	16,118	35,259	32,357	131,538
Total snappers	***16,118***	***35,259***	***32,357***	***131,538***

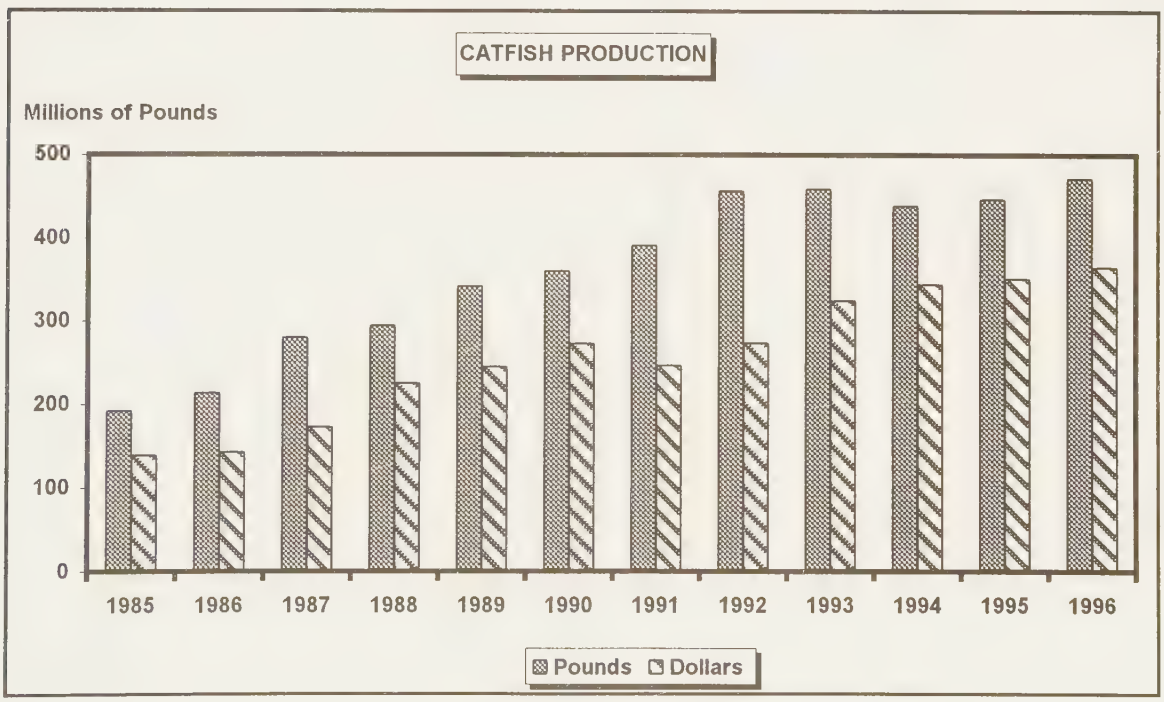
(Continued on next page)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1997 (1)

Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Squirrelfish	1,805	3,683	10,941	23,245
Surgeonfishes	-	-	-	-
Triggerfish	-	-	-	-
Tuna:				
Albacore	-	-	-	-
Bigeye	-	-	-	-
Skipjack	35,043	34,014	141,076	307,377
Yellowfin	83,667	64,259	23,634	59,345
Unclassified	633,966	698,499	16,305	35,986
Total tuna	***752,676***	***796,772***	***181,015***	***402,708***
Wahoo	16,822	25,234	9,115	21,116
Other marine finfishes	5,963	8,799	4,131	9,374
Freshwater fish, other	-	-	-	-
Total, fish	***930,546***	***1,083,325***	***550,326***	***1,330,327***
Shellfish				
Crabs, other	133	439	-	-
Lobster, spiny	1,626	4,924	412	1,927
Shrimp	-	-	-	-
Octopus	-	-	-	-
Other shellfish	70	70	838	2,373
Total, shellfish, et al	***1,829***	***5,433***	***1,250***	***4,300***
Grand total	***932,375***	***1,088,758***	***551,576***	***1,334,627***

(1) Data in this table are preliminary and represent the latest information available.


U.S. AQUACULTURE STATISTICS
TOTAL U.S. PRODUCTION
Millions of Pounds
1,000
800
600
400
200
0
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
Pounds
Dollars


CATFISH PRODUCTION
Millions of Pounds
500
400
300
200
100
0
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
Pounds
Dollars

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1985 - 1996

Species	1985			1986			1987		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	24,807	11,252	51,280	25,807	11,706	51,522	26,000	11,794	71,500
Catfish.....	191,616	86,916	138,922	213,756	96,959	142,789	280,496	127,232	173,347
Salmon.....	3,921	1,779	5,465	2,878	1,305	4,399	4,024	1,825	7,462
Striped bass...	NA	0	NA	10	5	195	405	184	813
Trout.....	50,600	22,952	55,154	51,000	23,133	55,590	56,247	25,513	57,556
Shellfish:									
Clams.....	1,999	907	4,698	2,564	1,163	8,173	2,409	1,093	10,311
Crawfish.....	65,011	29,489	29,350	69,834	31,676	35,009	70,000	31,752	29,400
Mussels.....	1,210	549	642	1,175	533	1,032	1,164	528	1,024
Oysters.....	21,906	9,936	38,882	24,475	11,102	49,666	23,926	10,853	49,549
Shrimp (SW)....	440	200	1,566	1,354	614	1,687	2,656	1,205	3,408
Miscellaneous....	14,267	6,471	21,541	15,668	7,107	22,398	16,845	7,641	32,722
Totals.....	***375,777***	***170,451***	***347,500***	***408,521***	***185,304***	***372,460***	***484,172***	***219,619***	***437,092***

Species	1988			1989			1990		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	26,400	11,975	71,000	24,005	10,889	62,489	21,610	9,802	53,978
Catfish.....	295,109	133,861	225,463	341,900	155,085	245,142	360,435	163,492	273,210
Salmon.....	6,777	3,074	20,647	8,504	3,857	23,742	9,069	4,114	26,341
Striped bass...	880	399	1,820	1,020	463	2,173	1,590	721	3,490
Trout.....	56,032	25,416	57,927	55,528	25,187	60,041	56,816	25,772	64,640
Shellfish:									
Clams.....	2,128	965	11,320	2,370	1,075	12,721	3,680	1,669	13,486
Crawfish.....	65,848	29,868	24,364	66,000	29,937	20,460	71,000	32,205	34,000
Mussels.....	1,064	483	1,130	618	280	1,136	607	275	1,173
Oysters.....	24,398	11,067	58,900	22,255	10,095	58,082	22,192	10,066	77,949
Shrimp (SW)....	2,200	998	7,609	1,500	680	7,551	1,984	900	7,937
Miscellaneous....	19,406	8,803	40,102	24,330	11,036	45,964	23,548	10,681	98,908
Totals.....	***500,242***	***226,908***	***520,282***	***548,030***	***248,585***	***539,501***	***572,531***	***259,698***	***655,112***

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1985 - 1996

Species	1991			1992			1993		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	21,182	9,608	55,948	20,618	9,352	61,183	20,574	9,332	63,033
Catfish.....	390,870	177,297	246,639	457,367	207,460	273,506	459,013	208,207	325,432
Salmon.....	16,753	7,599	44,156	23,937	10,858	75,193	25,279	11,466	68,358
Striped bass...	2,250	1,021	5,086	3,550	1,610	8,266	5,950	2,699	14,270
Tilapia.....	5,000	2,268	6,250	9,500	4,309	10,260	12,500	5,670	15,625
Trout.....	59,422	26,954	59,142	56,264	25,521	53,942	54,642	24,785	54,309
Shellfish:									
Clams.....	3,784	1,716	11,133	4,282	1,942	11,539	6,125	2,778	12,096
Crawfish.....	60,585	27,481	33,285	63,032	28,591	34,860	56,784	25,757	28,518
Mussels.....	210	95	947	282	128	1,162	308	140	927
Oysters.....	20,632	9,359	63,463	23,986	10,880	82,432	24,399	11,067	76,139
Shrimp (SW)....	3,527	1,600	14,110	4,409	2,000	17,637	6,614	3,000	26,455
Miscellaneous....	19,891	9,022	96,069	23,955	10,866	94,207	6,613	3,000	97,232
Totals.....	***604,106***	***274,021***	***636,228***	***691,182***	***313,518***	***724,187***	***678,801***	***307,902***	***782,394***

Species	1994			1995			1996		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:									
Baitfish.....	21,709	9,847	68,714	21,759	9,870	72,522	20,849	9,457	70,254
Catfish.....	439,269	199,251	344,475	446,886	202,706	351,222	472,123	214,154	364,951
Salmon.....	24,714	11,210	61,915	31,315	14,204	75,991	30,657	13,906	60,995
Striped bass...	7,625	3,459	18,835	8,315	3,772	21,156	7,850	3,561	20,308
Tilapia.....	12,980	5,888	16,225	15,075	6,838	22,613	15,965	7,242	23,948
Trout.....	52,075	23,621	52,569	55,934	25,371	61,447	53,620	24,322	56,958
Shellfish:									
Clams.....	4,872	2,210	14,023	4,325	1,962	19,709	3,834	1,739	20,315
Crawfish.....	49,080	22,263	26,994	58,146	26,375	34,714	46,584	21,130	34,820
Mussels.....	424	192	1,249	410	186	1,221	986	447	5,085
Oysters.....	28,016	12,708	69,928	23,221	10,533	70,628	18,546	8,412	64,368
Shrimp (SW)....	4,409	2,000	17,637	2,205	1,000	8,818	2,866	1,300	11,464
Miscellaneous....	20,462	9,282	58,545	23,359	10,596	75,243	19,813	8,987	152,169
Totals.....	***665,635***	***301,930***	***751,109***	***690,950***	***313,413***	***815,284***	***693,693***	***314,657***	***885,635***

NA:--Not available. SW:--Saltwater.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value but not weight are reported for many species such as ornamental fishes.

Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1)

Year	Maine		New Hampshire		Massachusetts	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	15,616	190	-	-	48,831	1,115
1951	19,576	284	-	-	97,974	2,486
1952	23,328	260	-	-	81,202	1,914
1953	12,668	150	-	-	71,858	1,398
1954	9,319	116	-	-	78,050	1,646
1955	25,128	266	-	-	81,884	1,486
1956	14,835	158	-	-	72,445	1,314
1957	15,810	179	-	-	107,972	1,970
1958	23,577	318	-	-	81,066	1,952
1959	23,339	330	-	-	83,134	1,682
1960	11,123	192	-	-	87,348	1,950
1961	14,147	237	-	-	74,010	1,616
1962	17,831	274	-	-	75,384	1,656
1963	15,942	242	-	-	66,770	1,563
1964	25,304	374	-	-	58,067	1,263
1965	27,722	486	-	-	44,903	1,309
1966	29,699	1,143	-	-	51,482	2,310
1967	20,726	504	-	-	37,812	1,098
1968	28,916	817	15	(2)	40,495	1,384
1969	17,890	802	22	(2)	18,359	1,132
1970	14,837	1,184	18	1	21,591	1,871
1971	9,900	480	15	1	15,077	888
1972	4,095	331	24	1	11,228	1,059
1973	5,517	299	9	1	25,475	1,689
1974	2,869	175	16	1	12,369	1,007
1975	1,199	72	23	2	26,630	2,239
1976	408	29	39	3	29,440	2,376
1977	255	17	35	3	27,179	2,301
1978	1,162	109	52	5	27,243	3,769
1979	143	15	45	4	7,635	1,392
1980	537	60	73	7	9,846	1,644
1981	2,823	330	16	2	6,634	1,326
1982	1,920	258	37	5	8,389	1,493
1983	2,317	328	105	17	9,629	1,220
1984	3,625	323	141	20	14,090	1,558
1985	2,493	276	391	87	14,773	2,685
1986	1,931	352	188	33	16,559	3,018
1987	1,281	341	159	38	10,777	2,844
1988	2,143	417	153	48	8,990	2,133
1989	759	219	126	42	6,276	1,730
1990	264	56	227	76	8,781	2,260
1991	127	44	173	60	8,726	2,626
1992	102	53	185	80	7,940	2,681
1993	61	24	142	70	5,457	1,804
1994	1,935	527	203	79	4,700	1,624
1995	1,981	629	194	76	2,830	1,025
1996	3,207	1,175	243	97	2,657	905
1997	1,124	319	328	113	2,850	1,142

See footnotes at end of table.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1) - Continued

Year	Connecticut		Rhode Island		New York	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	362	12	655	21	1,363	71
1951	174	13	742	21	684	49
1952	193	11	1,232	33	823	44
1953	135	7	704	15	1,468	115
1954	224	5	2,793	68	2,172	130
1955	361	9	3,257	72	3,858	165
1956	150	3	2,660	67	1,540	53
1957	237	7	2,293	57	3,653	151
1958	142	4	1,865	51	2,020	102
1959	545	15	3,126	83	2,069	104
1960	708	16	4,458	104	3,593	130
1961	767	19	5,021	124	2,628	113
1962	533	13	3,989	96	2,723	122
1963	369	10	3,477	99	2,368	111
1964	396	10	3,905	104	3,123	159
1965	263	8	2,489	79	3,338	161
1966	147	9	2,513	147	2,008	89
1967	97	3	1,270	49	3,885	212
1968	136	8	2,172	120	3,311	200
1969	194	14	2,836	204	2,132	134
1970	88	8	3,597	322	1,020	114
1971	289	16	2,910	228	1,058	95
1972	82	5	2,753	285	2,631	195
1973	21	2	3,094	310	1,930	211
1974	26	2	5,220	463	1,955	250
1975	22	2	5,347	450	2,599	345
1976	34	8	7,284	530	2,546	290
1977	98	13	5,495	486	2,105	358
1978	168	17	6,572	824	4,712	896
1979	148	20	8,334	1,335	6,285	1,166
1980	20	3	6,913	1,162	5,222	1,083
1981	103	20	10,141	1,754	3,422	1,083
1982	101	20	14,992	2,919	3,232	1,080
1983	136	22	13,608	2,180	4,545	1,270
1984	106	21	15,021	2,316	4,619	1,116
1985	102	20	13,282	2,359	4,403	1,412
1986	152	30	12,517	2,487	2,364	955
1987	303	103	13,327	4,112	4,524	2,321
1988	377	128	13,570	2,744	4,190	1,441
1989	773	131	15,261	2,426	9,059	2,859
1990	525	89	18,168	3,645	7,394	2,601
1991	848	144	16,103	3,881	6,105	2,464
1992	1,260	214	18,338	3,968	5,936	2,940
1993	2,398	408	15,442	4,846	12,200	5,900
1994	1,889	321	12,881	4,297	11,166	5,793
1995	3,572	1,426	9,889	4,010	11,365	5,725
1996	5,644	1,944	9,116	3,170	12,723	5,581
1997	4,164	1,740	11,640	4,524	11,943	6,314

See footnotes at end of table.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1) - Continued

Year	New Jersey		Delaware		Maryland	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	474	36	-	-	4	(2)
1951	897	49	-	-	11	(2)
1952	1,647	102	-	-	1	(2)
1953	2,754	127	1	(2)	3	(2)
1954	2,633	75	5	(2)	27	1
1955	4,339	126	-	-	-	-
1956	2,212	84	-	-	33	1
1957	3,007	113	1	(2)	49	1
1958	2,583	128	-	-	76	2
1959	2,484	107	55	2	96	2
1960	3,821	127	-	-	111	2
1961	3,680	122	-	-	66	2
1962	3,913	157	-	-	168	4
1963	3,409	143	-	-	190	5
1964	3,271	154	-	-	131	3
1965	3,729	156	1		109	3
1966	4,520	255	-	-	29	1
1967	5,654	286	1	(2)	59	2
1968	4,045	254	1	(2)	10	1
1969	3,826	349	-	-	34	3
1970	3,301	382	-	-	32	4
1971	3,948	375	-	-	6	1
1972	5,440	453	-	-	-	-
1973	6,450	868	2	(2)	4	1
1974	7,022	587	8	1	21	2
1975	6,467	615	13	1	5	1
1976	7,915	743	9	1	6	1
1977	10,055	1,040	9	(2)	33	2
1978	11,108	1,558	5	(2)	11	1
1979	11,749	1,718	3	(2)	22	2
1980	11,822	2,004	4	(2)	14	1
1981	9,072	1,801	-	-	16	2
1982	7,102	1,875	-	-	11	3
1983	6,614	1,740	-	-	33	8
1984	8,415	1,484	-	-	26	5
1985	8,988	1,419	-	-	9	2
1986	5,900	1,341	-	-	3	1
1987	4,183	1,787	-	-	1	(2)
1988	6,096	1,695	-	-	6	1
1989	8,200	2,263	-	-	13	4
1990	8,627	2,377	-	-	22	7
1991	4,422	2,000	-	-	15	5
1992	2,160	1,024	-	-	2	1
1993	2,638	1,016	-	-	14	4
1994	2,867	1,192	-	-	3	1
1995	2,783	1,307	-	-	4	2
1996	1,798	617	-	-	-	-
1997	2,072	869	-	-	2	1

See footnotes at end of table.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1) - Continued

Year	Virginia		North Carolina		Atlantic Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	8	(2)	-	-	67,313	1,445
1951	17	1	-	-	120,075	2,903
1952	13	(2)	-	-	108,439	2,364
1953	34	1	-	-	89,625	1,813
1954	34	1	-	-	95,257	2,042
1955	46	2	-	-	118,873	2,126
1956	49	2	-	-	93,924	1,682
1957	19	1	-	-	133,041	2,479
1958	74	3	-	-	111,403	2,560
1959	344	10	-	-	115,192	2,335
1960	440	14	-	-	111,602	2,535
1961	407	12	3	(2)	100,729	2,245
1962	548	18	-	-	105,089	2,340
1963	117	4	1	(2)	92,643	2,177
1964	36	1			94,233	2,068
1965	20	1	-	-	82,574	2,203
1966	10	1	-	-	90,408	3,955
1967	40	2	-	-	69,544	2,156
1968	47	3	-	-	79,148	2,787
1969	35	3	-	-	45,328	2,641
1970	32	3	-	-	44,516	3,889
1971	94	7	286	34	33,583	2,125
1972	13	1	2	(2)	26,268	2,330
1973	12	3	-	-	42,514	3,384
1974	5	1	2	(2)	29,513	2,489
1975	7	1	2	(2)	42,314	3,728
1976	6	(2)	-	-	47,687	3,981
1977	37	3	14	1	45,315	4,224
1978	83	11	-	-	51,116	7,190
1979	152	24	-	-	34,516	5,676
1980	330	50	670	83	35,451	6,097
1981	494	54	3,149	546	35,870	6,918
1982	188	55	584	102	36,556	7,810
1983	79	16	18	5	37,084	6,806
1984	171	24	276	41	46,490	6,908
1985	57	10	63	8	44,561	8,278
1986	27	6	13	3	39,654	8,226
1987	66	22	15	6	34,636	11,574
1988	19	5	4	1	35,548	8,613
1989	44	7	5	1	40,516	9,682
1990	57	14	9	2	44,074	11,127
1991	30	9	2	1	36,551	11,234
1992	6	2	-	-	35,929	10,963
1993	12	3	20	5	38,384	14,080
1994	10	7	-	-	35,654	13,841
1995	8	3	-	-	32,626	14,203
1996	10	4			35,398	13,493
1997	5	2			34,128	15,024

See footnotes at end of table.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1) - Continued

Year	Washington		Oregon		California	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	-	-	-	-	1	(2)
1951	-	-	-	-	25	(2)
1952	-	-	-	-	6	(2)
1953	-	-	-	-	104	2
1954	-	-	-	-	612	9
1955	-	-	-	-	959	14
1956	-	-	-	-	1,376	22
1957	-	-	-	-	1,149	19
1958	-	-	-	-	1,135	19
1959	-	-	-	-	1,097	22
1960	-	-	-	-	325	6
1961	-	-	-	-	3	(2)
1962	-	-	-	-	-	-
1963	-	-	-	-	-	-
1964	716	11	50	1	112	2
1965	1,528	16	1,499	15	119	2
1966	11,700	113	65	1	69	1
1967	28,786	233	18	(2)	14	(2)
1968	9,386	89	-	-	-	-
1969	8,529	68	-	-	1	(2)
1970	9,009	78	-	-	10	(2)
1971	10,660	122	6	(2)	35	1
1972	4,184	40	9	(2)	11	(2)
1973	2,482	37	78	4	34	1
1974	5,197	102	36	4	32	2
1975	3,353	48	6	0	39	2
1976	3,739	57	472	19	29	1
1977	3,621	64	972	58	87	5
1978	6,379	128	858	56	748	66
1979	9,782	162	305	19	1,836	147
1980	11,350	245	605	42	1,528	109
1981	9,435	203	360	25	1,467	114
1982	13,334	336	3	0	2,257	181
1983	15,102	432	143	24	2,161	162
1984	8,884	282	746	59	5,148	341
1985	7,762	260	1,950	173	6,605	396
1986	3,372	116	927	60	6,575	384
1987	876	50	403	34	9,960	611
1988	776	53	543	41	14,402	1,076
1989	199	14	196	15	16,089	1,052
1990	11,074	823	5,058	219	12,167	784
1991	406,248	21,455	29,109	1,373	15,197	882
1992	319,606	17,578	107,939	5,078	10,868	597
1993	218,268	7,576	78,970	2,289	6,835	343
1994	396,874	14,281	143,563	4,298	7,965	354
1995	228,618	10,597	147,355	7,000	9,018	456
1996	268,553	12,674	155,588	4,145	6,396	239
1997	330,127	19,938	155,511	6,823	13,960	583

See footnotes at end of table.

SUMMARY OF COMMERCIAL WHITING (MERLUCCIUS SPP.) LANDINGS, BY STATE, 1950-97 (1) - Continued

Year	Pacific Total		Grand Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1950	1	(2)	67,314	1,445
1951	25	(2)	120,100	2,903
1952	6	(2)	108,445	2,364
1953	104	2	89,729	1,815
1954	612	9	95,869	2,051
1955	959	14	119,832	2,140
1956	1,376	22	95,300	1,704
1957	1,149	19	134,190	2,498
1958	1,135	19	112,538	2,579
1959	1,097	22	116,289	2,357
1960	325	6	111,927	2,541
1961	3	(2)	100,732	2,245
1962	-	-	105,089	2,340
1963	-	-	92,643	2,177
1964	878	14	95,111	2,082
1965	3,146	33	85,720	2,236
1966	11,834	115	102,242	4,070
1967	28,818	233	98,362	2,389
1968	9,386	89	88,534	2,876
1969	8,530	68	53,858	2,709
1970	9,019	78	53,535	3,967
1971	10,701	123	44,284	2,248
1972	4,204	40	30,472	2,370
1973	2,594	42	45,108	3,426
1974	5,265	108	34,778	2,597
1975	3,398	50	45,712	3,778
1976	4,240	77	51,927	4,058
1977	4,680	127	49,995	4,351
1978	7,985	250	59,101	7,440
1979	11,923	328	46,439	6,004
1980	13,483	396	48,934	6,493
1981	11,262	342	47,132	7,260
1982	15,594	517	52,150	8,327
1983	17,406	618	54,490	7,424
1984	14,778	682	61,268	7,590
1985	16,317	829	60,878	9,107
1986	10,874	560	50,528	8,786
1987	11,239	695	45,875	12,269
1988	15,721	1,170	51,269	9,783
1989	16,484	1,081	57,000	10,763
1990	28,299	1,826	72,373	12,953
1991	450,554	23,710	487,105	34,944
1992	438,413	23,253	474,342	34,216
1993	304,073	10,208	342,457	24,288
1994	548,402	18,933	584,056	32,774
1995	384,991	18,053	417,617	32,256
1996	430,537	17,058	465,935	30,551
1997	499,598	27,344	533,726	42,368

(1) The scientific name of Pacific whiting (hake) is Merluccius productus while Atlantic whiting (silver hake) are M. bilinearis and M. albidus. Florida landings of 18,900 pounds and $1,512 for 1950 are not included in summary. The 1990-97 Washington landings include fishes caught in the EEZ or other waters principally off the coasts of Washington and Oregon that are processed by ships at sea.

(2) Less than 500 lb or $500.

DATA COLLECTION. Data on commercial fisheries were collected for many years, yet before 1979 there was no continuous, systematic collection of marine recreational fishery data. Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Data collected through the MRFSS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings.

The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These independent data are combined to produce estimates of catch, effort, and participation. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode and primary area fished. In addition, economic and demographic data are also obtained.

The MRFSS is being conducted in 1998 along the coast of the entire continental United States except the state of Texas. Sampling coverage varies across the time series (see figures). Detailed information and the ability to access data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated number of fish caught and weight of the harvest are presented for 64 commonly caught species. The estimated number caught includes a) fish brought ashore in whole form that were identified, weighed, and measured; and b) fish that were not available for identification. The latter type includes fish used for bait, discarded, filleted or released alive. Harvest does not include fish that were released alive. Estimated catch and harvest is presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the edge of the state territorial seas to 200 miles from shore]. The total number of estimated trips and participants are presented by state.

All estimates are shown with proportional standard errors (PSE). The PSE's express the standard error of an estimate as a percentage of the estimate and are a measure of precision. A 95% confidence interval indicates a 95% certainty that the true value lies between the lower and upper limits. The 95% confidence intervals are calculated as: 1) the lower limit is the estimate minus 1.96 times the standard error, and 2) the upper limit is the estimate plus 1.96 times the standard error. For example, if the estimated trips equal 64 million with a PSE of 1%, then the upper confidence interval would be 65,254,400 (64 million + (1.96 X 640,000)).

1997 MRFSS DATA. In 1997, almost 9 million people made 68 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 366 million fish. Over 50% percent of the catch was released alive. The estimated total weight of the harvest was 234 million pounds.

The Atlantic and Gulf coasts accounted for 79% of the participants, 90% of the fishing trips, and 92% of the marine recreational finfish catch. Most (57%) of the catch came from inland waters, 32% from state territorial seas, and 11% from the EEZ. The distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the catch

was from inland waters, while on the Pacific coast the majority was from the state territorial seas.

ATLANTIC AND GULF. The estimated number of Atlantic and Gulf coast trips made between 1993 and 1997 remained at about 58 million. The estimated number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 6.6 million in 1996 to a high of 7.6 million in 1994. In 1997, 7 million marine recreational fishing participants took 61 million trips and caught a total of 337 million fish. By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (45%) followed by the Mid-Atlantic (31%). Thirty percent of the recreational fishing trips were made in the South Atlantic, 30% in the Gulf of Mexico, 28% in the Mid-Atlantic, and 12% in the North Atlantic.

The most commonly caught non-bait species (numbers of fish) were spotted seatrout, Atlantic croaker, summer flounder, striped bass, black sea bass, and bluefish. Top-ranked non-bait species (catch in numbers) by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, bluefish in the South Atlantic, and spotted seatrout in the Gulf of Mexico. By weight, the largest harvests were dolphin, striped bass, bluefish, red drum, king mackerel, summer flounder, and spotted seatrout. The average weight for all fish combined was 1.6 pounds while the average weights for the top species were 2.6 pounds for bluefish, 10.1 for striped bass, 5.1 for red drum, 10.1 for dolphin, 1.1 for spotted seatrout, 1.8 for summer flounder, and 10.1 for king mackerel.

The catch of striped bass increased steadily and dramatically since 1990 with a record catch of over 17 million fish in 1997. Over 91% of striped bass were released alive in 1997. Spotted seatrout, summer flounder, Atlantic croaker and black sea bass catches remained relatively steady from 1993-1997. Bluefish catches increased from 10 million in 1995 and 1996 to 13 million in 1997.

Eleven percent of the catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, Atlantic mackerel, dolphin, red snapper, Atlantic croaker, summer flounder and bluefish.

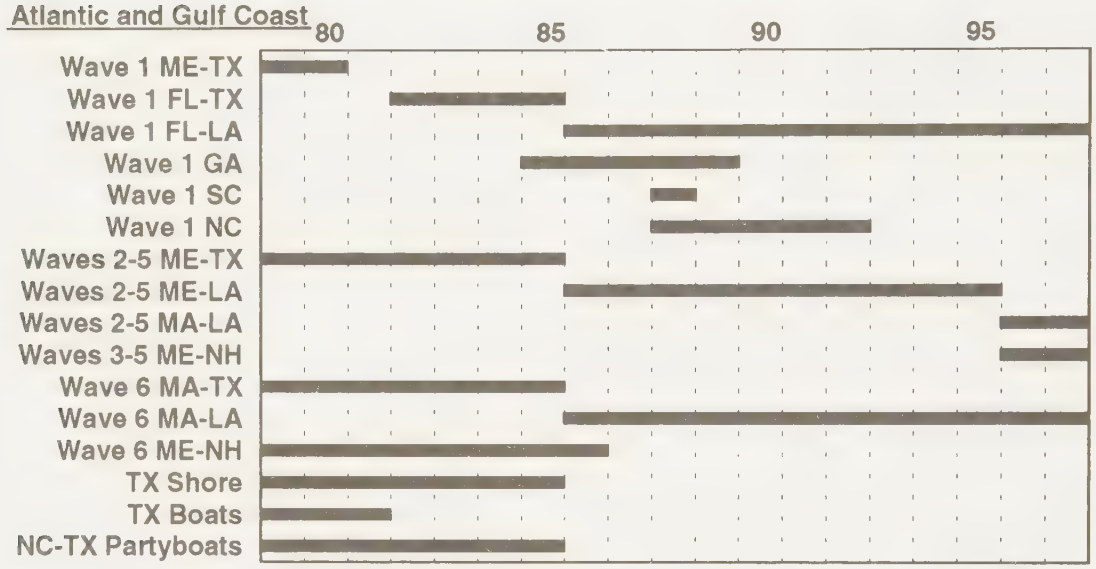
PACIFIC. In 1997, 1.8 million marine recreational fishing participants took 7.2 million trips and caught a total of 29 million fish. Seventy-two percent of the trips were made in California, followed by 20% in Washington, and 8% in Oregon.

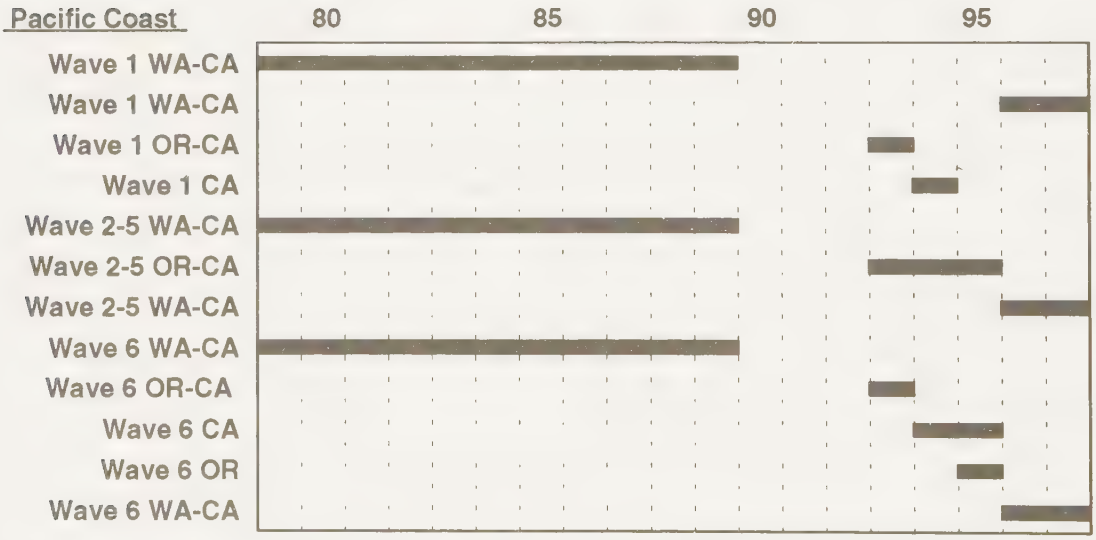
The most commonly caught non-bait species (numbers of fish) were Pacific (chub) mackerel, surf smelt, white croaker, kelp bass and barred sand bass. The largest harvests were California halibut, Pacific mackerel, Pacific barracuda, black rockfish, barred sandbass, and lingcod. The average weight for all fish combined was 0.9 pounds. Average weights for some of the top species were: 9.0 pounds for California halibut, 0.9 pounds for Pacific (chub) mackerel, 2.0 pounds for black rockfish, 1.5 pounds for barred sandbass, and 7.1 pounds for lingcod.

Surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish in 1996. California halibut catch has shown no real trend since 1993, ranging from a low of 347,000 fish in 1993 to a high of 924,000 fish in 1997. Pacific mackerel reached a 4-year high in 1996 with 6.0 million fish caught.

Seven percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters were Pacific mackerel, barred sand bass, yellowtail rockfish, blue rockfish, Pacific barracuda, kelp bass, and white croaker. The percent of the catch from the state territorial sea was about 60% in 1997, while the inland catch increased from 13-17% in the early 1990's to 33% for 1997.

MRFSS Sampling Coverage by Wave, State, and Mode, 1979-1997.





Note: Salmon trips are excluded on the Pacific coast. Ocean-boat trips were excluded in WA in 1989 and in Oregon during July-August during1987-1989 and 1993-1997.

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1993 TO 1997 FOR THE ATLANTIC COAST AND GULF COASTS.

Year	North Atlantic sub-region											
	Maine		New Hampshire		Massachussetts		Rhode Island		Connecticut		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. . .	202	18	76	21	719	9	254	14	233	10	876	5
1994. . .	216	20	122	37	686	9	208	15	228	12	845	6
1995. . .	234	21	97	25	688	9	220	17	295	13	874	5
1996. . .	268	17	96	19	597	8	243	13	387	12	972	5
1997. . .	323	11	135	12	837	5	275	9	327	11	1,123	5

Year	Mid-Atlantic sub-region											
	New York		New Jersey		Delaware		Maryland		Virginia		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. . .	622	9	1,025	8	249	14	840	9	454	9	2,129	4
1994. . .	770	9	1,113	8	201	14	811	9	566	7	2,317	4
1995. . .	487	9	927	8	293	10	870	9	555	9	1,861	4
1996. . .	584	8	997	7	236	11	893	10	507	9	1,994	4
1997. . .	520	7	874	5	224	6	718	6	734	6	1,949	3

Year	South Atlantic sub-region									
	North Carolina		South Carolina		Georgia		East Florida		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993.	1,367	5	512	10	180	12	1,941	4	2,181	2
1994.	1,480	5	580	10	323	12	2,167	3	2,529	2
1995.	1,276	5	420	11	313	13	2,086	3	2,287	2
1996.	1,150	6	471	10	210	13	1,841	4	1,835	3
1997.	1,327	3	530	6	111	8	1,864	3	1,891	2

Year	Gulf of Mexico sub-region									
	West Florida		Alabama		Mississippi		Louisiana		Total (1,2)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993.	2,402	3	284	11	251	9	506	6	1,877	3
1994.	2,665	3	275	10	240	10	446	6	1,931	2
1995.	2,231	3	283	10	280	10	538	6	2,009	2
1996.	2,251	3	258	11	230	11	493	7	1,818	3
1997.	2,584	2	268	6	226	7	607	4	2,029	2

(1) Sub-region totals do not include out of state anglers since these can be counted multiple times, therefore, the sum of the fishing participants across states will not equals the totals shown in the last column.

(2) Gulf of Mexico totals do not include Texas data.

Note:--Est = Estimate. PSE (%) = Proportional standard error.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE (%) BY STATE AND YEAR, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	North Atlantic sub-region											
	Maine		New Hampshire		Massachussetts		Rhode Island		Connecticut		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993	608	12	197	14	3,094	5	1,109	9	1,218	10	6,225	4
1994	606	12	314	23	3,249	5	1,003	9	1,109	11	6,281	4
1995	628	13	286	15	3,368	5	885	10	1,347	12	6,513	4
1996	687	13	250	12	3,290	5	1,001	8	1,528	11	6,756	4
1997	854	10	338	11	4,138	5	1,163	8	1,132	13	7,625	4

Year	Mid-Atlantic sub-region											
	New York		New Jersey		Delaware		Maryland		Virginia		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993	4,189	12	5,193	6	795	10	3,045	7	2,068	6	15,290	3
1994	4,380	12	5,659	5	692	11	2,872	7	2,634	5	16,237	3
1995	4,019	13	4,956	5	865	7	2,851	7	2,885	5	15,576	3
1996	4,372	13	5,500	4	816	7	3,027	7	2,786	5	16,502	3
1997	4,258	6	5,470	4	884	7	2,912	6	3,704	6	17,229	3

Year	South Atlantic sub-region									
	North Carolina		South Carolina		Georgia		East Florida		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993	4,716	4	1,776	5	673	7	9,630	2	16,796	2
1994	5,170	3	1,987	6	956	9	11,815	2	19,928	1
1995	4,992	4	1,502	6	778	9	11,482	2	18,754	2
1996	4,605	4	1,390	6	577	9	10,251	2	16,823	2
1997	4,789	3	1,584	5	568	8	11,056	2	17,997	2

Year	Gulf of Mexico sub-region									
	West Florida		Alabama		Mississippi		Louisiana		Total (1)	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993	12,928	2	933	6	866	6	2,704	4	17,431	1
1994	13,167	2	887	6	964	6	2,485	4	17,504	1
1995	12,159	2	977	5	1,033	6	2,947	4	17,115	1
1996	11,766	2	870	7	903	6	2,780	5	16,319	2
1997	12,978	2	1,000	6	985	5	3,140	4	18,103	2

(1) Gulf of Mexico totals do not include Texas data.

Note:--Est = Estimate. PSE (%) = Proportional standard error.

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY STATE AND YEAR, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific Coast sub-region								Total(1)	
	So. California		No. California		Oregon		Washington			
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
	Number of thousands									
1993. . .	985	6	620	7	300	8	na	na	1,661	4
1994. . .	1,285	6	449	7	216	7	na	na	1,671	4
1995. . .	1,063	7	634	7	249	7	na	na	1,678	4
1996. . .	958	10	523	7	219	11	447	9	1,783	4
1997. . .	905	5	581	5	247	6	359	6	1,815	3

(1) Sub-region totals do not include out of state anglers since they can be counted multiple times, therefore, the sum of participants across states will not equal totals shown in the last column.

Note:--Est = Estimate. PSE (%) = Proportional standard error.

NA = Not available (Marine Recreational Fisheries Statistics Survey not conducted in Washington from 1993-1995).

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY STATE AND YEAR, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific Coast sub-region								Total(1)	
	So. California		No. California		Oregon		Washington			
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
	Number of thousands									
1993. . .	4,038	4	2,152	5	704	6	NA	NA	6,893	3
1994. . .	4,748	4	1,968	6	471	5	NA	NA	7,187	3
1995. . .	4,300	4	2,340	5	579	5	NA	NA	7,220	3
1996. . .	3,682	4	1,934	4	491	8	1,658	9	7,765	3
1997. . .	3,232	4	1,906	5	593	7	1,455	6	7,187	3

Note:--Est = Estimate. PSE (%) = Proportional standard error.

NA = Not available (Marine Recreational Fisheries Statistics Survey not conducted in Washington from 1993-1995).

ESTIMATED NUMBER OF PEOPLE PARTICIPATING IN MARINE RECREATIONAL FISHING AND PSE (%) BY COAST AND YEAR, 1993-1997 U.S. TOTALS

Year	U.S. Totals						Total	
	Atlantic Coast		Gulf of Mexico		Pacific Coast			
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
	Number of thousands							
1993.	5,186	3	1,877	3	1,661	4	8,724	2
1994.	5,691	2	1,931	2	1,671	4	9,293	2
1995.	5,022	2	2,009	2	1,678	4	8,709	2
1996.	4,801	3	1,818	3	1,783	4	8,402	2
1997.	4,963	2	2,029	2	1,815	3	8,807	1

Note: Est = Estimate. PSE(%) = Proportional standard error. Totals only include continental U.S.

Texas data not included for all years and Washington not inlcuded for 1993-1995.

ESTIMATED NUMBER OF MARINE RECREATIONAL FISHING TRIPS AND PSE(%) BY COAST AND YEAR, 1993-1997 U.S. TOTALS

Year	U.S. Totals						Total	
	Atlantic Coast		Gulf of Mexico		Pacific Coast			
	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)	Est	PSE(%)
	Number of thousands							
1993.	38,311	1	17,431	1	6,893	3	62,635	1
1994.	42,446	1	17,504	1	7,187	3	67,137	1
1995.	40,843	1	17,115	1	7,220	3	65,178	1
1996.	40,081	1	16,319	2	7,765	3	64,165	1
1997.	42,850	1	18,103	2	7,187	3	68,140	1

Note: Est = Estimate. PSE(%) = Proportional standard error. Totals only include continental U.S.

Texas data not included for all years and Washington not inlcuded for 1993-1995.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Atlantic cod

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	2,270	11	423	15	0	0	0	0	2,693	10
1994	1,749	8	112	23	0	0	0	0	1,861	8
1995	1,747	15	195	19	0	0	0	0	1,942	14
1996	1,061	10	19	24	0	0	0	0	1,080	10
1997	841	14	22	21	0	0	0	0	863	14

Atlantic croaker

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	14,136	6	2,921	5	3,959	7	21,016	5
1994	0	0	17,472	5	5,753	5	3,445	6	26,671	3
1995	0	0	12,246	6	2,970	7	2,537	6	17,753	4
1996	0	0	12,082	6	2,245	5	2,539	7	16,867	5
1997	0	0	18,059	7	2,698	6	3,468	6	24,225	5

Atlantic mackerel

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	2,161	10	144	35	0	0	0	0	2,307	10
1994	4,690	12	170	44	0	0	0	0	4,860	12
1995	2,934	13	1,074	35	0	0	0	0	4,008	13
1996	3,001	10	647	26	1	55	0	0	3,650	9
1997	3,524	13	1,434	17	0	100	0	0	4,959	11

Black drum

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	12	34	253	9	1,268	9	1,534	7
1994	0	0	4	41	297	8	824	8	1,125	6
1995	0	0	27	23	505	10	1,063	8	1,595	6
1996	0	0	22	29	355	8	818	7	1,196	6
1997	0	0	9	38	326	9	1,344	8	1,678	6

Black sea bass

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	67	14	8,898	14	1,418	7	2,375	7	12,758	10
1994	33	38	6,995	7	2,131	6	2,735	6	11,892	4
1995	122	12	13,841	7	1,660	6	2,170	6	17,793	6
1996	195	13	9,807	7	1,312	7	1,435	7	12,750	6
1997	128	16	8,126	6	1,717	6	1,805	8	11,776	4

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Bluefish									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	2,425	5	4,516	5	2,984	4	376	12	10,301	3
1994. . .	2,220	6	6,190	6	3,510	4	484	12	12,405	3
1995. . .	2,022	6	5,113	5	3,341	5	464	12	10,940	3
1996. . .	2,810	7	5,135	5	1,954	4	471	12	10,370	3
1997. . .	2,579	6	6,163	5	3,584	4	602	10	12,927	3

Year	Dolphin									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	18	29	246	22	961	5	675	11	1,927	5
1994. . .	1	54	86	20	1,680	7	653	11	2,450	6
1995. . .	11	60	74	21	1,523	4	963	8	2,613	4
1996. . .	1	100	199	35	1,233	5	461	9	1,905	5
1997. . .	0	53	31	42	1,356	7	1,058	11	2,444	6

Year	Gag									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	0	0	86	19	1,652	6	1,738	6
1994. . .	0	0	0	0	137	15	2,095	5	2,232	5
1995. . .	0	0	0	0	123	12	2,416	5	2,539	5
1996. . .	0	0	0	0	96	12	1,494	5	1,590	5
1997. . .	0	0	0	0	90	14	2,074	5	2,164	5

Year	Gray snapper									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	0	0	745	7	4,408	4	5,154	4
1994. . .	0	0	0	0	1,312	8	3,534	5	4,845	4
1995. . .	0	0	0	0	1,315	12	3,237	5	4,552	5
1996. . .	0	0	0	0	1,084	8	3,330	6	4,413	5
1997. . .	0	0	0	0	1,487	10	3,840	5	5,327	4

Year	Gray triggerfish									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	1	52	89	23	154	13	661	8	906	7
1994. . .	1	53	31	27	115	10	686	8	834	6
1995. . .	0	100	38	28	131	13	661	8	830	7
1996. . .	1	50	106	34	162	12	392	8	662	8
1997. . .	3	82	63	28	153	14	357	8	576	7

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Greater amberjack

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	694	19	67	12	380	10	1,141	12
1994	0	0	1	52	98	13	233	11	332	9
1995	0	0	2	73	35	16	126	14	164	11
1996	0	0	25	37	90	13	142	9	258	8
1997	0	0	2	100	47	18	95	14	144	11

King mackerel

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	17	40	506	5	500	6	1,023	4
1994	0	0	5	47	461	6	682	6	1,148	4
1995	0	0	1	61	628	6	622	6	1,252	4
1996	0	0	2	59	485	5	748	7	1,235	4
1997	0	0	23	42	704	5	643	7	1,369	4

Red drum

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	64	36	1,274	7	6,310	4	7,649	4
1994	0	0	12	32	1,683	6	5,913	4	7,609	3
1995	0	0	36	37	2,105	7	7,096	4	9,236	3
1996	0	0	3	40	1,130	6	5,952	3	7,085	3
1997	0	0	118	35	1,243	6	7,007	4	8,367	3

Red snapper

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	0	0	87	23	2,458	5	2,546	5
1994	0	0	0	0	95	21	1,916	6	2,011	5
1995	0	0	0	0	69	16	1,539	6	1,609	6
1996	0	0	0	0	34	24	1,700	6	1,733	6
1997	0	0	0	0	48	35	2,924	5	2,972	5

Sand seatrout

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
[illegible]	0	0	0	0	0	0	4,068	7	4,068	7
[illegible]	0	0	0	0	0	0	5,665	5	5,665	5
[illegible]	0	0	0	0	0	0	4,355	7	4,355	7
[illegible]	0	0	0	0	0	0	4,624	6	4,624	6
[illegible]	0	0	0	0	0	0	3,248	9	3,248	9

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS - Continued

Year	Scup									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	4,337	8	2,723	8	17	24	0	0	7,077	6
1994. . .	2,431	7	3,192	13	39	41	0	0	5,662	8
1995. . .	2,572	7	1,111	20	5	27	0	0	3,688	8
1996. . .	3,533	9	1,321	13	4	34	0	0	4,858	7
1997. . .	1,835	11	996	17	11	40	0	0	2,842	9

Year	Sheepshead									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	1	74	1,263	14	4,329	5	5,593	5
1994. . .	0	0	4	78	1,715	8	2,663	5	4,383	5
1995. . .	0	0	14	42	1,538	8	3,552	6	5,118	5
1996. . .	0	0	2	59	944	6	2,593	5	3,542	4
1997. . .	0	0	22	71	783	8	3,024	6	3,829	5

Year	Southern flounder									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	2	73	509	6	572	8	1,083	5
1994. . .	0	0	0	0	830	6	539	7	1,369	4
1995. . .	0	0	0	0	740	7	706	6	1,446	5
1996. . .	0	0	1	59	454	7	738	7	1,192	5
1997. . .	0	0	43	31	599	6	625	7	1,267	5

Year	Spanish mackerel									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	1	62	197	14	949	6	2,506	6	3,653	4
1994. . .	0	0	341	13	1,502	6	2,007	5	3,850	4
1995. . .	0	0	147	23	847	6	1,574	9	2,568	6
1996. . .	0	0	100	35	1,069	6	1,818	7	2,988	5
1997. . .	0	0	91	34	1,299	6	2,066	7	3,456	5

Year	Spot									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	7,713	8	5,562	7	988	33	14,263	6
1994. . .	0	0	8,815	5	9,449	6	227	33	18,491	4
1995. . .	0	0	5,343	8	6,039	6	185	29	11,567	5
1996. . .	0	0	2,668	10	4,630	9	66	27	7,364	7
1997. . .	0	0	6,916	10	2,827	8	103	75	9,846	7

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS - Continued

Spotted seatrout

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	0	0	176	16	2,336	5	19,026	3	21,538	3
1994	0	0	425	11	2,319	6	19,438	3	22,181	3
1995	0	0	579	19	3,425	5	20,610	3	24,615	3
1996	0	0	304	19	1,976	5	18,282	3	20,563	3
1997	0	0	285	15	2,370	6	23,139	3	25,794	3

Striped bass

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	1,692	9	3,080	9	13	40	15	25	4,900	6
1994	3,243	7	5,241	9	22	23	15	34	8,636	6
1995	5,190	7	5,405	8	63	13	30	30	10,839	5
1996	6,799	8	6,987	7	297	9	18	24	14,101	5
1997	8,757	5	7,836	7	395	8	21	39	17,009	4

Summer flounder

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	551	9	21,815	4	553	7	0	0	22,919	4
1994	1,019	7	16,317	4	404	7	0	0	17,741	3
1995	833	9	15,244	4	162	9	0	0	16,239	4
1996	1,426	7	17,981	3	394	7	0	0	19,801	3
1997	1,698	9	17,249	4	304	8	0	0	19,251	3

Tautog

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993	718	8	3,491	7	5	22	0	0	4,215	6
1994	729	10	1,921	8	3	32	0	0	2,653	7
1995	583	11	3,228	8	4	31	0	0	3,816	7
1996	547	9	1,726	8	7	31	0	0	2,279	6
1997	387	11	1,245	8	12	42	0	0	1,643	6

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (WITH RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, SUB-REGION, 1993-1997 FOR THE ATLANTIC AND GULF COASTS - Continued

Year	Vermilion snapper								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	0	0	0	0	139	17	1,090	8	1,228	7
1994. . .	0	0	0	0	119	13	706	9	826	8
1995. . .	0	0	0	0	171	23	1,029	8	1,200	8
1996. . .	0	0	0	0	110	18	357	9	467	8
1997. . .	0	0	0	0	117	18	348	14	465	11

Year	Weakfish								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	2	43	1,828	7	388	10	0	0	2,219	6
1994. . .	1	100	4,290	6	638	9	0	0	4,929	5
1995. . .	2	53	5,359	6	378	10	0	0	5,739	5
1996. . .	1	53	7,250	5	343	10	0	0	7,594	5
1997. . .	3	46	5,850	5	601	8	0	0	6,455	5

Year	Winter flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	651	9	2,930	23	0	0	0	0	3,582	19
1994. . .	486	9	1,814	13	0	0	0	0	2,300	11
1995. . .	473	14	1,851	10	0	0	0	0	2,324	9
1996. . .	400	10	2,514	14	0	0	0	0	2,913	12
1997. . .	556	13	1,340	13	0	0	0	0	1,896	10

Year	All fishes								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Numbers in thousands									
1993. . .	20,991	3	97,574	2	50,887	2	147,332	2	316,784	1
1994. . .	25,880	8	94,945	2	72,173	1	148,856	3	341,854	1
1995. . .	21,983	5	88,522	2	65,240	1	135,781	3	311,526	1
1996. . .	23,427	4	86,419	2	51,257	2	118,625	2	279,728	1
1997. . .	23,781	3	96,548	2	58,295	1	39,819	2	318,443	1

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Atlantic cod

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	5,190	17	1,949	20	0	0	0	0	7,139	14
1994. . .	4,083	25	203	27	0	0	0	0	4,285	24
1995. . .	3,437	20	1,164	17	0	0	0	0	4,601	16
1996. . .	3,260	21	72	27	0	0	0	0	3,332	20
1997. . .	2,550	25	71	11	0	0	0	0	2,622	24

Atlantic croaker

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	2,481	9	537	8	593	10	3,611	6
1994. . .	0	0	4,019	6	851	9	602	17	5,472	5
1995. . .	0	0	3,374	8	661	18	392	18	4,426	7
1996. . .	0	0	3,815	8	413	9	433	12	4,661	7
1997. . .	0	0	7,258	10	492	12	328	14	8,078	9

Atlantic mackerel

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	1,255	12	66	44	0	0	0	0	1,326	12
1994. . .	3,675	16	85	52	0	0	0	0	3,760	16
1995. . .	1,847	13	907	36	0	0	0	0	2,754	15
1996. . .	2,699	12	422	25	2	59	0	0	3,123	11
1997. . .	2,636	14	1,190	20	0	0	0	0	3,826	11

Black drum

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	2	42	428	13	1,478	13	1,908	11
1994. . .	0	0	3	74	693	13	1,177	20	1,873	13
1995. . .	0	0	155	42	658	16	1,307	9	2,121	8
1996. . .	0	0	99	67	568	13	1,159	8	1,826	8
1997. . .	0	0	48	0	554	14	1,750	12	2,351	9

Black sea bass

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	49	16	4,776	22	560	16	509	16	5,894	18
1994. . .	37	53	2,890	13	623	17	531	11	4,081	10
1995. . .	64	27	6,099	14	588	12	288	11	7,040	12
1996. . .	85	19	5,812	15	654	13	249	11	6,801	13
1997. . .	67	36	4,178	9	526	14	304	15	5,075	8

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Bluefish									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	9,209	6	8,735	7	2,348	7	349	22	20,641	4
1994. . .	7,996	8	6,284	8	1,261	6	451	21	15,992	5
1995. . .	5,992	8	6,973	9	1,209	9	600	26	14,775	5
1996. . .	6,644	14	7,050	10	1,040	8	354	14	15,089	8
1997. . .	4,881	8	7,405	10	1,958	8	250	17	14,494	6

Year	Dolphin									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	143	21	1,783	40	5,368	6	3,524	13	10,818	9
1994. . .	0	0	393	30	9,619	8	2,765	15	12,778	7
1995. . .	0	0	754	27	12,142	5	6,896	9	19,792	5
1996. . .	0	0	522	49	7,387	6	4,640	12	12,549	6
1997. . .	0	0	208	44	10,380	7	11,934	14	22,521	8

Year	Gag									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	544	22	2,282	8	2,827	8
1994. . .	0	0	0	0	561	21	1,947	9	2,507	9
1995. . .	0	0	0	0	303	19	2,628	8	2,930	8
1996. . .	0	0	0	0	278	21	1,964	8	2,242	8
1997. . .	0	0	0	0	278	32	2,656	9	2,934	9

Year	Gray snapper									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1992. . .	0	0	0	0	369	12	1,091	7	1,460	6
1993. . .	0	0	0	0	245	13	1,124	8	1,369	7
1994. . .	0	0	0	0	281	10	1,136	9	1,417	8
1995. . .	0	0	0	0	320	14	1,058	8	1,378	7
1996. . .	0	0	0	0	231	13	955	8	1,187	7
1997. . .	0	0	0	0	373	19	877	11	1,249	10

Year	Gray triggerfish									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	1	0	106	25	177	17	1,182	11	1,465	9
1994. . .	2	78	39	32	142	13	1,165	11	1,348	10
1995. . .	0	0	65	32	97	15	1,017	9	1,179	8
1996. . .	1	65	155	43	183	15	496	11	836	11
1997. . .	0	0	167	31	168	22	589	10	925	10

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Greater amberjack

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	254	23	578	21	3,498	17	4,330	14
1994. . .	0	0	0	0	1,626	19	1,562	16	3,188	12
1995. . .	0	0	0	0	623	21	811	15	1,434	13
1996. . .	0	0	6	57	970	14	994	10	1,970	9
1997. . .	0	0	0	0	495	21	1,199	22	1,694	17

King mackerel

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	141	50	4,285	7	4,119	8	8,545	5
1994. . .	0	0	11	41	4,176	7	4,634	8	8,821	5
1995. . .	0	0	15	0	5,008	7	4,697	7	9,719	5
1996. . .	0	0	7	71	4,314	6	5,700	7	10,020	5
1997. . .	0	0	127	50	6,377	6	5,416	8	11,921	5

Red drum

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	46	11	1,168	8	8,710	5	9,924	5
1994. . .	0	0	4	0	1,439	9	7,528	5	8,970	4
1995. . .	0	0	66	0	1,661	11	11,939	4	13,665	4
1996. . .	0	0	2	0	1,333	8	11,708	5	13,043	4
1997. . .	0	0	2	0	798	10	12,011	5	12,811	5

Red snapper

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	142	27	4,136	7	4,278	7
1994. . .	0	0	0	0	201	36	3,734	8	3,935	8
1995. . .	0	0	0	0	67	20	2,876	8	2,943	8
1996. . .	0	0	0	0	102	35	2,617	8	2,719	8
1997 . .	0	0	0	0	88	44	4,456	11	4,544	11

Sand seatrout

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	0	0	2,090	10	2,090	10
1994. . .	0	0	0	0	0	0	2,884	6	2,884	6
1995. . .	0	0	0	0	0	0	2,002	8	2,002	8
1996. . .	0	0	0	0	0	0	1,889	8	1,889	8
1997. . .	0	0	0	0	0	0	1,453	15	1,453	15

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Scup

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	2,275	13	920	12	4	18	0	0	3,198	10
1994. . .	1,542	16	1,076	16	10	57	0	0	2,629	12
1995. . .	1,013	13	299	29	1	54	0	0	1,313	12
1996. . .	1,618	10	621	14	0	0	0	0	2,239	8
1997. . .	809	14	384	28	12	41	0	0	1,205	13

Sheepshead

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	1,879	13	4,577	6	6,456	6
1994. . .	0	0	0	0	2,902	10	2,734	8	5,636	6
1995. . .	0	0	9	77	2,597	11	4,901	6	7,507	6
1996. . .	0	0	5	58	1,702	8	3,348	6	5,055	5
1997. . .	0	0	2	0	1,060	11	3,790	9	4,852	8

Southern flounder

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	693	8	655	9	1,348	6
1994. . .	0	0	0	0	1,132	7	664	8	1,796	5
1995. . .	0	0	0	0	924	9	715	8	1,639	6
1996. . .	0	0	1	0	478	11	780	8	1,258	7
1997. . .	0	0	19	57	788	9	677	8	1,483	6

Spanish mackerel

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	1	0	175	18	1,262	7	1,941	7	3,378	5
1994. . .	0	0	214	14	1,158	6	1,762	6	3,135	4
1995. . .	0	0	145	29	672	8	1,630	9	2,447	6
1996. . .	0	0	81	46	986	9	1,637	7	2,704	6
1997. . .	0	0	22	35	1,415	8	2,095	9	3,533	6

Spot

Year	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	1,591	11	1,780	7	108	56	3,479	7
1994. . .	0	0	1,956	6	2,372	8	55	42	4,383	5
1995. . .	0	0	1,571	10	1,536	7	50	42	3,158	6
1996. . .	0	0	832	12	1,214	12	5	51	2,051	9
1997. . .	0	0	1,724	13	976	12	3	44	2,703	9

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Spotted seatrout								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	214	22	1,554	7	8,295	5	10,064	4
1994. . .	0	0	202	14	1,633	6	9,342	4	11,178	3
1995. . .	0	0	178	18	2,030	8	10,361	5	12,569	4
1996. . .	0	0	78	22	803	8	9,665	5	10,545	4
1997. . .	0	0	299	21	1,079	8	9,431	5	10,808	5

Year	Striped bass								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	1,846	10	3,803	12	16	38	1	0	5,666	9
1994. . .	2,284	10	4,443	9	77	31	9	37	6,813	7
1995. . .	2,657	8	8,365	9	237	15	5	17	11,264	7
1996. . .	3,441	9	10,885	6	288	13	6	36	14,619	5
1997. . .	5,132	7	10,214	7	765	13	13	63	16,125	5

Year	Summer flounder								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	552	11	7,812	5	479	7	0	0	8,844	4
1994. . .	980	9	7,886	4	481	7	0	0	9,347	4
1995. . .	858	11	4,394	5	251	23	0	0	5,503	5
1996. . .	1,232	8	8,777	4	407	7	0	0	10,416	3
1997. . .	1,058	13	10,442	5	381	9	0	0	11,881	4

Year	Tautog								Total	
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)			
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	1,673	10	4,244	11	10	64	0	0	5,927	8
1994. . .	1,119	14	2,346	19	3	0	0	0	3,468	13
1995. . .	959	16	3,641	10	3	33	0	0	4,604	9
1996. . .	918	13	2,336	13	12	31	0	0	3,266	10
1997. . .	551	15	1,587	14	58	52	0	0	2,196	11

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED WEIGHT (LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Vermilion snapper									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	0	0	0	0	98	23	759	11	857	10
1994. . .	0	0	0	0	73	19	608	13	681	12
1995. . .	0	0	0	0	44	21	564	11	608	10
1996. . .	0	0	0	0	79	45	229	14	309	15
1997. . .	0	0	0	0	73	20	342	16	415	14

Year	Weakfish									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	7	59	887	11	209	13	0	0	1,102	9
1994. . .	0	0	1,471	11	324	11	0	0	1,796	10
1995. . .	0	0	1,689	8	163	18	0	0	1,852	7
1996. . .	0	0	2,849	7	102	10	0	0	2,951	7
1997. . .	1	0	3,424	8	261	12	0	0	3,687	8

Year	Winter flounder									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	559	12	1,570	30	0	0	0	0	2,130	22
1994. . .	393	12	1,104	17	0	0	0	0	1,497	13
1995. . .	389	23	1,161	13	0	0	0	0	1,549	11
1996. . .	328	12	1,383	14	0	0	0	0	1,712	11
1997. . .	501	16	1,000	16	0	0	0	0	1,501	12

Year	All fishes									
	North Atlantic		Mid-Atlantic		South Atlantic		Gulf of Mexico (1)		Total	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. . .	24,298	5	55,082	4	37,346	2	68,519	2	185,244	2
1994. . .	23,915	6	45,859	3	50,089	3	63,572	2	183,436	1
1995. . .	19,788	6	58,870	8	50,444	2	73,055	2	202,157	3
1996. . .	21,286	6	55,744	3	43,757	3	64,567	2	185,354	2
1997. . .	19,319	5	60,237	3	49,316	3	79,314	3	208,185	2

(1) Gulf of Mexico estimates do not include Texas data.

Note:--Est = estimate. PSE (%) = Proportional standard error.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass		barred surfperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. .	1,542	4	678	9	949	6	1,862	7	147	14
1994. .	1,487	5	385	11	693	7	544	7	179	14
1995. .	1,514	6	672	10	631	6	440	7	24	18
1996. .	1,637	4	561	12	605	7	631	7	68	14
1997. .	1,411	6	611	13	595	9	736	13	65	23

Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. .	154	9	109	7	347	7	231	7	46	25
1994. .	67	14	76	9	491	6	178	8	56	18
1995. .	80	11	85	11	924	6	201	10	23	26
1996. .	111	9	111	8	683	6	131	8	55	18
1997. .	101	19	74	12	510	7	115	14	3	39

Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. .	156	9	17	18	299	10	32	13	2,610	5
1994. .	159	11	26	17	216	10	17	17	1,848	4
1995. .	77	10	57	17	92	12	15	18	1,599	6
1996. .	234	8	33	15	113	10	15	16	1,634	5
1997. .	102	11	24	19	76	13	21	20	1,723	7

Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. . .	209	8	381	5	1,250	6	630	7	0	0
1994. . .	101	9	262	6	1,765	6	346	10	1	63
1995. . .	95	9	243	6	1,379	6	100	13	0	0
1996. . .	226	8	356	6	566	6	140	11	12	45
1997. .	176	10	282	7	849	7	202	9	2	30

Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. . .	4,651	4	329	17	33	19	34	34	69	17
1994. . .	5,313	4	368	42	31	13	9	14	90	17
1995. . .	5,146	5	73	38	29	25	5	24	91	14
1996. . .	5,931	4	288	22	159	22	58	13	112	22
1997. .	5,721	7	164	21	46	16	48	15	41	24

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. .	68	11	110	17	101	13	132	9	1,632	26
1994. .	87	11	46	19	115	12	73	13	1,202	28
1995. .	60	14	57	16	151	12	98	19	1,413	25
1996. .	77	12	60	20	174	9	286	12	4,807	25
1997. .	47	19	115	21	169	11	113	19	1,624	45

Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands									
1993. .	2,019	5	22	16	120	10	284	8	30,922	2
1994. .	900	9	5	30	24	15	164	8	27,169	2
1995. .	1,408	15	47	19	30	16	140	8	27,609	2
1996. .	1,958	7	22	15	64	10	83	10	34,047	4
1997. .	1,063	10	26	17	855	9	352	21	7	3

Note:--Est = estimate. PSE (%) = Proportional standard error.
1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass		barred surfperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	1,048	6	315	13	1,621	7	1,310	7	271	14
1994. .	1,034	7	167	14	1,150	8	503	8	424	17
1995. .	1,468	8	354	12	1,121	7	395	8	68	21
1996. .	1,305	6	313	15	1,178	7	607	8	219	16
1997. .	790	12	231	15	1,173	9	652	12	116	25

Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	148	11	262	8	596	11	251	7	36	41
1994. .	59	14	171	9	790	9	184	8	50	20
1995. .	97	12	186	13	2,349	8	266	9	23	26
1996. .	105	10	254	9	1,159	9	174	9	71	20
1997. .	109	20	195	13	875	10	178	14	3	31

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	218	10	12	21	224	11	38	17	1,434	6
1994. .	203	12	14	26	174	11	22	16	1,395	6
1995. .	116	12	37	21	82	13	15	17	1,131	7
1996. .	350	9	33	24	83	11	21	17	816	6
1997. .	166	12	15	36	56	14	21	22	767	9

Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	195	8	1,605	6	1,688	9	707	9	0	0
1994. .	95	9	906	8	2,016	8	519	10	1	72
1995. .	85	10	856	9	2,491	8	177	16	0	0
1996. .	206	9	1,127	7	1,027	8	91	17	16	45
1997. .	164	11	878	10	1,700	8	412	12	2	0

Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	1,373	6	51	20	37	23	94	41	58	19
1994. .	2,225	8	42	34	26	14	16	15	70	18
1995. .	2,163	8	4	69	20	23	8	20	62	15
1996. .	1,640	5	19	30	171	24	81	15	102	23
1997. .	2,126	20	14	28	43	18	79	17	36	27

Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	154	21	23	17	106	18	130	10	159	27
1994. .	234	17	10	21	104	19	61	16	90	28
1995. .	106	19	18	19	380	15	99	21	122	24
1996. .	174	16	17	23	311	13	259	13	514	29
1997. .	114	28	27	26	327	15	104	18	120	44

Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds									
1993. .	425	7	207	24	943	11	249	8	20,935	2
1994. .	174	15	44	36	209	18	179	8	17,924	2
1995. .	410	21	764	21	308	17	198	9	24,313	2
1996. .	614	9	641	16	660	14	237	13	23,191	2
1997. .	329	20	549	15	3,234	10	451	21	26,007	3

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Atlantic cod						Atlantic croaker					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	80	22	263	14	2,350	11	17,594	5	2,702	7	721	19
1994. .	297	25	318	15	1,247	9	21,197	4	4,945	6	528	15
1995. .	63	29	154	19	1,725	15	14,126	5	2,853	7	774	25
1996. .	29	36	89	15	962	11	12,590	6	3,435	8	841	13
1997. .	35	28	130	25	825	15	20,396	6	3,154	10	1,819	13

Year	Atlantic mackerel						Black drum					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	1,097	16	472	15	737	17	964	9	510	15	60	26
1994. .	1,595	14	2,188	19	1,078	30	810	8	276	8	39	27
1995. .	1,445	23	1,071	17	1,493	25	1,010	8	525	10	60	38
1996. .	683	13	1,400	15	1,566	16	915	7	261	8	20	16
1997. .	867	21	2,402	15	1,923	19	1,420	7	238	10	51	26

Year	Black sea bass						Bluefish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	2,892	7	4,429	24	5,437	10	5,382	4	3,736	4	1,184	8
1994. .	4,208	6	2,241	6	5,443	8	6,726	5	4,774	4	904	9
1995. .	5,652	7	2,662	7	9,479	9	5,201	4	4,862	5	876	8
1996. .	3,705	9	1,755	7	7,289	8	5,676	5	3,406	4	1,289	11
1997. .	3,626	9	2,552	7	7,897	7	6,509	5	5,425	5	1,168	8

Year	Dolphin						Gag					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	40	33	265	14	1,620	6	284	15	466	12	988	7
1994. .	24	28	220	35	2,206	5	583	10	744	9	905	7
1995. .	1	100	315	9	2,297	4	386	10	566	10	1,588	6
1996. .	12	29	179	12	1,714	6	364	10	399	9	827	6
1997. .	1	71	224	14	2,238	7	599	9	734	10	843	8

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Gray snapper						Gray triggerfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	2,530	5	2,194	7	430	11	39	20	324	12	543	8
1994. .	2,445	6	1,943	6	458	15	44	22	256	10	534	9
1995. .	1,972	8	2,170	6	410	12	27	21	262	13	541	8
1996. .	1,998	8	1,731	7	685	10	43	20	225	13	394	11
1997. .	2,671	7	2,537	6	131	14	47	22	199	13	369	11

Year	Greater amberjack						King mackerel					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	16	36	814	16	311	10	31	24	545	6	448	5
1993. .	19	50	41	19	272	10	54	21	464	6	631	6
1993. .	4	61	43	24	116	13	52	20	474	6	726	6
1996. .	2	52	69	16	187	9	25	24	467	9	742	5
1997. .	0	100	22	30	122	12	41	34	434	8	908	5

Year	Red drum						Red snapper					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	5,905	4	1,494	8	250	16	45	32	205	16	2,296	6
1994. .	5,916	4	1,560	6	132	17	32	24	223	12	1,756	6
1995. .	6,803	4	2,296	5	137	12	17	32	226	16	1,365	6
1996. .	5,524	4	1,409	5	152	13	12	35	358	17	1,363	6
1997. .	6,688	4	1,712	6	237	17	66	23	444	10	2,495	6

Year	Sand seatrout						Scup					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	2,033	9	1,586	12	449	22	4,867	6	1,188	13	1,022	23
1994. .	3,505	7	1,705	10	455	17	3,619	11	1,077	12	965	16
1995. .	2,582	9	1,498	11	275	20	1,573	9	1,201	13	913	23
1996. .	2,152	7	1,847	10	625	23	3,576	9	946	13	335	21
1997. .	1,197	12	1,522	13	591	35	2,112	11	656	17	309	15

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Sheepshead						Southern flounder					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	4,450	5	980	12	163	23	822	6	243	12	17	25
1994. .	3,369	5	891	8	123	18	1,085	5	259	9	25	22
1995. .	3,984	6	973	8	161	18	1,128	5	299	9	19	36
1996. .	2,693	5	698	7	151	15	965	6	207	12	19	54
1997. .	2,843	6	886	12	153	24	899	5	353	8	29	28

Year	Spanish mackerel						Spot					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	1,040	8	2,208	6	404	9	10,186	7	4,058	9	19	43
1994. .	1,122	7	2,251	4	477	12	9,816	4	8,556	7	119	21
1995. .	396	9	1,659	6	513	23	4,695	6	6,759	7	113	23
1996. .	1,121	10	1,330	6	537	8	3,139	8	4,128	11	97	30
1997. .	1,339	10	1,592	6	534	10	6,229	7	3,594	15	82	45

Year	Spotted seatrout						Striped bass					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	15,791	4	5,402	5	344	17	3,475	9	1,105	8	220	15
1994. .	15,284	3	6,486	4	412	14	6,557	8	1,580	8	384	15
1995. .	15,566	3	8,735	4	314	17	7,141	7	2,859	8	688	11
1996. .	13,885	3	6,388	4	289	16	9,323	7	3,955	6	822	9
1997. .	18,254	4	7,344	5	554	17	11,634	6	4,615	6	1,166	9

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Summer flounder						Tautog					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	14,724	4	7,648	7	547	14	2,904	7	771	17	540	11
1994. .	11,963	4	5,326	6	452	15	1,682	9	366	17	605	13
1995. .	12,401	5	3,172	7	665	14	1,992	9	1,155	14	668	15
1996. .	12,936	4	5,969	5	896	10	1,054	8	543	18	683	10
1997. .	12,822	4	5,861	5	1,361	9	872	9	398	13	507	12

Year	Vermilion snapper						Weakfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	10	50	159	17	1,059	8	1,738	7	346	15	135	27
1994. .	2	100	142	23	683	8	3,687	6	744	10	498	17
1995. .	8	53	351	15	841	9	4,553	6	898	12	288	19
1996. .	0	100	93	19	374	9	6,217	6	974	10	402	14
1997. .	1	98	50	29	419	12	5,049	5	1,395	13	374	16

Year	Winter flounder						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	3,120	21	382	14	81	20	187,752	2	91,952	2	37,080	2
1994. .	2,038	12	233	13	29	32	204,137	2	100,690	1	37,028	2
1995. .	2,106	9	152	17	66	52	163,466	2	100,462	3	47,598	4
1996. .	2,739	13	155	15	19	25	161,205	2	80,685	2	37,838	2
1997. .	1,896	11	784	16	13	32	200,534	3	98,143	2	38,684	2

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS

Year	Atlantic cod						Atlantic croaker					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	106	39	467	21	6,566	15	3,177	7	328	11	105	32
1994. .	304	30	553	22	3,428	30	4,595	6	756	15	121	27
1995. .	87	47	196	24	4,318	17	3,800	7	339	12	288	41
1996. .	105	80	220	25	3,007	22	3,629	8	525	11	507	18
1997. .	38	64	343	41	2,241	27	6,453	11	768	25	857	18

Year	Atlantic mackerel						Black drum					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	375	18	271	19	681	20	1,258	11	516	26	133	36
1994. .	646	19	2,114	22	999	35	1,084	11	663	33	126	32
1995. .	474	19	1,014	20	1,266	27	1,407	11	575	14	139	31
1996. .	564	17	1,393	18	1,166	18	1,395	9	386	12	44	22
1997. .	584	25	1,684	16	1,558	19	1,580	11	641	18	131	44

Year	Black sea bass						Bluefish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	562	18	2,188	41	3,143	18	9,979	6	5,816	6	4,846	10
1994. .	377	12	453	13	3,251	12	8,128	7	5,172	8	2,692	14
1995. .	608	15	476	20	5,956	14	7,268	8	3,989	10	3,517	11
1996. .	481	16	560	18	5,759	15	5,365	11	3,919	9	5,804	17
1997. .	312	18	572	13	4,191	9	4,737	10	6,023	9	3,734	13

Year	Dolphin						Gag					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	65	38	1,138	17	9,615	9	91	37	529	15	2,207	9
1994. .	76	49	1,335	40	11,367	6	158	30	418	17	1,931	10
1995. .	10	100	2,659	11	17,123	5	222	20	516	20	2,193	9
1996. .	63	31	1,389	18	11,096	7	126	24	447	16	1,669	9
1997. .	5	100	1,710	23	20,807	9	314	19	822	19	1,798	12

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	Gray snapper						Gray triggerfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	386	8	647	11	336	18	49	21	514	17	902	11
1994. .	412	9	583	11	422	19	43	30	362	21	944	11
1995. .	388	10	499	10	491	14	26	28	334	17	820	9
1996. .	325	11	437	11	425	14	42	23	188	17	606	14
1997. .	369	19	761	13	119	19	75	23	205	20	645	12

Year	Greater amberjack						King mackerel					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	0	62	1,099	15	3,231	19	121	30	4,171	8	4,253	6
1994. .	273	64	379	44	2,537	12	353	23	3,523	10	4,944	6
1995. .	73	100	332	32	1,029	13	287	21	3,715	8	5,717	6
1996. .	0	0	446	21	1,524	10	187	29	3,396	8	6,436	6
1997. .	0	0	280	39	1,415	19	268	37	3,642	9	8,011	6

Year	Red drum						Red snapper					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	6,987	6	2,210	9	727	15	60	71	344	15	3,873	7
1994. .	6,589	5	1,919	8	463	23	38	31	396	17	3,500	9
1995. .	10,109	5	2,860	6	697	21	5	83	329	17	2,609	9
1996. .	9,099	5	3,063	8	880	19	3	100	254	23	2,462	9
1997. .	8,744	6	3,203	9	864	23	44	51	459	16	4,041	12

Year	Sand seatrout						Scup					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	781	10	819	16	490	29	1,942	7	498	17	758	34
1994. .	1,663	8	877	12	344	19	1,721	17	564	15	343	22
1995. .	1,077	10	769	14	155	22	464	22	468	16	382	24
1996. .	832	12	768	12	289	23	1,528	10	508	17	203	31
1997. .	532	15	583	19	338	51	761	18	339	24	106	23

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	Sheepshead						Southern flounder					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	5,025	7	1,078	12	353	36	1,010	7	305	12	34	30
1994. .	4,198	8	1,262	12	176	25	1,435	6	320	11	42	30
1995. .	5,362	7	1,690	12	455	27	1,264	7	350	14	24	41
1996. .	3,554	6	1,164	9	337	23	1,021	7	189	14	48	56
1997. .	3,078	7	1,443	19	330	26	998	7	449	11	36	35

Year	Spanish mackerel						Spot					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	826	10	1,881	7	671	10	2,244	9	1,234	10	1	55
1994. .	719	8	1,911	6	505	9	2,211	6	2,144	9	28	29
1995. .	348	12	1,392	8	708	14	1,380	8	1,755	9	22	34
1996. .	799	10	1,244	8	661	11	968	11	1,068	14	15	45
1997. .	932	13	1,622	8	979	14	1,971	10	1,002	18	30	105

Year	Spotted seatrout						Striped bass					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	7,268	5	2,450	7	345	20	2,718	9	2,188	19	760	18
1994. .	7,395	4	3,520	6	263	16	4,160	10	2,296	10	357	20
1995. .	8,554	5	3,821	5	194	24	6,001	8	4,403	13	861	12
1996. .	7,067	6	3,303	7	175	24	6,004	7	6,959	8	1,656	16
1997. .	7,023	6	3,268	8	518	32	7,024	7	6,349	8	2,752	13

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND FISHING AREA, 1993-1997 FOR THE ATLANTIC AND GULF COASTS.

Year	Summer flounder						Tautog					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	5,563	5	3,052	9	229	21	3,824	10	1,065	19	1,038	22
1994. .	6,461	5	2,564	7	321	18	2,029	20	510	23	929	22
1995. .	4,084	6	1,196	9	224	17	2,388	13	1,407	16	809	19
1996. .	6,256	4	3,483	6	676	14	1,516	13	702	23	1,048	18
1997. .	6,430	5	4,352	8	1,100	14	1,025	15	626	24	545	18

Year	Vermilion snapper						Weakfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	2	78	96	24	760	11	882	11	184	18	37	41
1994. .	0	0	92	44	589	11	1,320	12	318	14	157	21
1995. .	2	73	159	18	447	12	1,486	8	311	19	55	24
1996. .	0	0	60	23	249	18	2,417	8	452	18	83	17
1997. .	1	98	47	34	368	15	2,879	8	622	23	186	27

Year	Winter flounder						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%	Est	PSE (%)	Est	PSE (%)	Est	PSE (%	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	1,766	27	309	19	55	28	67,278	2	50,334	4	67,633	3
1994. .	1,311	14	163	17	23	39	70,268	2	47,577	2	65,591	3
1995. .	1,362	12	108	24	79	65	68,871	2	47,165	3	86,120	6
1996. .	1,617	12	80	18	15	34	66,313	2	47,625	3	71,416	3
1997. .	1,318	13	172	22	11	59	71,076	2	56,877	3	80,232	3

Note:--Est= Estimate. PSE (%) = Proportional standard error. "Ocean to 3 miles" includes trips off of Florida's west coast from 0 to 10 miles from shore (state territorial waters) while "Ocean 3 to 200 miles" includes only trips off Florida's west coast beyond 10 miles from shore. Estimates do not include Texas data.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass						Barred surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	314	10	701	6	527	7	21	24	657	10	0	0
1994. .	239	12	1,056	6	193	10	4	47	381	12	0	100
1995. .	293	19	841	7	379	10	8	33	664	10	0	0
1996. .	271	10	1,026	6	339	9	18	38	543	12	0	0
1997. .	258	12	1,106	7	47	15	11	37	601	13	0	0

Year	Black rockfish						Blue rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	51	14	811	7	87	15	21	24	1,786	7	55	12
1994. .	27	17	656	7	11	27	0	64	490	8	53	19
1995. .	22	18	580	7	29	19	9	56	418	8	14	27
1996. .	59	15	491	8	56	14	11	30	502	8	118	20
1997. .	40	17	523	10	32	28	6	40	532	10	198	38

Year	Bocaccio						Cabezon					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	7	48	21	17	119	16	14	14	90	8	4	28
1994. .	0	100	26	25	152	16	6	17	67	10	3	28
1995. .	0	0	6	29	18	22	4	30	79	12	2	44
1996. .	1	79	23	18	45	19	24	16	85	10	2	24
1997. .	0	0	20	24	45	32	12	26	61	13	1	39

Year	California halibut						Canary rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	138	11	166	9	42	18	3	29	189	9	38	15
1994. .	191	10	263	9	37	17	0	0	160	9	18	14
1995. .	446	8	451	9	26	19	1	100	156	13	44	11
1996. .	286	8	345	9	53	14	1	45	83	10	46	13
1997. .	183	10	322	9	4	33	1	48	73	12	40	33

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%) BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Chilipepper rockfish						Kelp bass					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	0	0	12	31	34	33	131	13	1,863	6	616	9
1994. .	0	0	10	60	47	17	101	14	1,348	5	399	9
1995. .	0	0	6	56	22	29	104	19	1,313	6	182	15
1996. .	0	0	3	38	52	19	69	17	1,352	5	213	13
1997. .	0	0	2	40	1	93	104	16	1,555	8	64	18

Year	Kelp greenling						Lingcod					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	83	15	122	9	4	37	26	13	315	6	40	12
1994. .	23	18	77	10	1	39	9	34	235	7	18	13
1995. .	31	15	63	11	1	41	13	27	204	7	26	15
1996. .	158	10	66	11	2	34	112	13	203	7	41	10
1997. .	129	12	46	12	2	32	106	12	146	8	31	26

Year	Pacific barracuda						Pacific cod					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	74	30	785	8	391	8	0	0	0	0	0	0
1994. .	61	25	1,107	8	597	9	0	0	1	63	0	0
1995. .	41	30	1,136	7	202	11	0	0	0	0	0	0
1996. .	14	25	326	9	227	9	12	45	0	0	0	0
1997. .	9	32	766	7	74	16	2	30	0	0	0	0

Year	Pacific chub mackerel						Redtail surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	397	13	2,678	5	1,576	7	1	46	68	17	0	0
1994. .	567	19	3,522	6	1,225	8	2	32	88	18	0	0
1995. .	477	13	3,000	7	1,669	9	13	22	78	16	0	0
1996. .	558	9	4,026	5	1,347	7	27	35	85	27	0	0
1997. .	428	11	4,931	8	363	14	1	47	40	25	0	0

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics S

RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Striped surfperch						White croaker					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	49	13	83	12	0	0	438	10	1,388	7	193	12
1994. .	14	17	58	16	0	0	175	14	657	11	68	21
1995. .	33	48	66	14	0	0	371	10	623	8	414	50
1996. .	191	17	87	16	0	0	587	13	1,091	9	177	20
1997. .	60	19	53	35	0	0	362	20	548	13	153	27

Year	White sturgeon						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Number in thousands											
1993. .	21	17	1	58	0	0	5,214	4	20,347	3	5,361	3
1994. .	5	30	0	0	0	0	3,492	5	18,283	3	5,394	3
1995. .	47	19	0	0	0	0	4,965	4	17,841	3	4,803	6
1996. .	22	14	0	0	0	0	11,672	10	17,767	4	4,334	3
1997. .	26	17	0	0	0	0	9,586	8	17,273	3	1,962	7

Note:--Est= Estimate. PSE (%) = Proportional standard error.
1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass						Barred surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	143	14	537	9	368	9	5	26	310	13	0	0
1994. .	37	29	858	8	138	12	2	59	165	14	0	100
1995. .	52	21	820	10	595	12	7	37	347	12	0	0
1996. .	50	18	810	8	446	11	12	38	301	15	0	0
1997. .	47	23	698	13	46	23	4	42	227	15	0	0

Year	Black rockfish						Blue rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	73	16	1,390	8	158	16	35	26	1,209	8	65	13
1994. .	30	20	1,095	8	25	46	0	66	475	8	28	26
1995. .	26	21	1,027	7	68	21	5	53	376	9	14	24
1996. .	128	19	937	8	113	14	7	30	478	9	122	20
1997. .	96	30	1,003	10	74	28	11	43	483	12	157	35

Note:--Est= Estimate. PSE (%) = Proportional standard error.
1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Bocaccio						Cabezon					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	4	61	25	20	242	15	26	17	226	9	11	32
1994. .	0	0	57	31	367	19	5	33	160	10	6	26
1995. .	0	0	9	43	59	23	3	38	180	13	4	55
1996. .	1	100	60	21	159	21	49	18	200	11	6	22
1997. .	0	0	42	31	74	34	21	29	168	14	6	40

Year	California halibut						Canary rockfish					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	146	16	397	16	52	23	7	31	189	9	54	16
1994. .	264	14	420	14	106	25	0	0	162	9	22	16
1995. .	1,384	12	930	12	35	29	0	100	180	12	85	11
1996. .	621	12	457	13	81	26	2	48	98	11	74	14
1997. .	424	14	445	15	7	71	1	63	111	12	65	32

Year	Chilipepper rockfish						Kelp bass					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	0	0	7	34	29	50	42	24	1,119	8	273	9
1994. .	0	0	0	0	50	20	10	32	1,049	8	335	11
1995. .	0	0	4	59	19	29	7	40	963	8	160	19
1996. .	0	0	4	61	67	21	11	39	721	7	87	13
1997. .	0	0	2	38	1	9	7	44	743	10	17	32

Year	Kelp greenling						Lingcod					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	55	14	138	10	2	38	88	15	1,333	7	184	17
1994. .	19	22	76	10	0	42	14	22	828	9	64	18
1995. .	18	15	66	12	1	54	23	25	752	10	81	18
1996. .	131	12	72	11	3	33	157	19	779	9	191	12
1997. .	113	151	49	12	3	34	119	21	613	10	147	36

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS, BY SPECIES AND PRIMARY FISHING AREA, 1993-1997 FOR THE PACIFIC COAST

Year	Pacific barracuda						Pacific cod					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	25	35	901	13	762	11	0	0	0	0	0	0
1994. .	11	43	989	10	1,016	13	0	0	1	72	0	0
1995. .	7	63	2,123	9	361	16	0	0	0	0	0	0
1996. .	5	46	529	11	492	13	16	45	0	0	0	0
1997. .	5	70	1,453	9	242	19	2	0	0	0	0	0

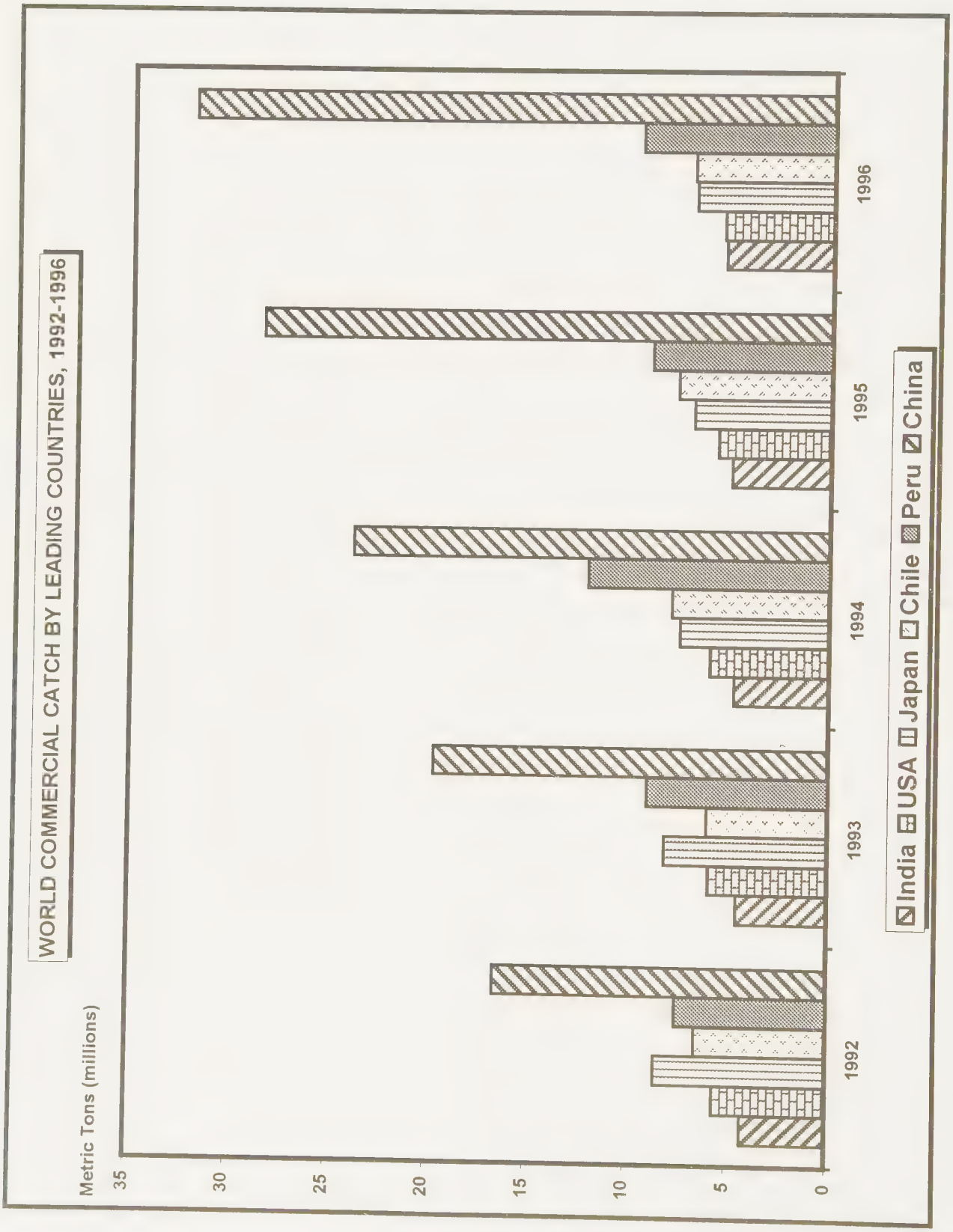
Year	Pacific chub mackerel						Redtail surfperch					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	148	24	761	7	465	13	1	47	57	19	0	0
1994. .	179	20	1,570	10	475	14	2	33	69	19	0	0
1995. .	155	18	1,101	9	907	15	16	24	47	18	0	0
1996. .	148	13	1,078	6	414	12	27	38	75	28	0	0
1997. .	124	17	1,894	22	109	27	1	49	35	28	0	0

Year	Striped surfperch						White croaker					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	42	14	88	13	0	0	128	13	277	9	20	23
1994. .	12	19	49	19	0	0	32	32	129	17	13	79
1995. .	35	54	64	16	0	0	128	14	160	12	122	66
1996. .	163	19	96	17	0	0	234	14	336	14	44	37
1997. .	50	19	54	30	0	0	191	30	133	23	5	72

Year	White sturgeon						All fishes					
	Inland		Ocean to 3 miles		Ocean 3 to 200 miles		Inland		Ocean to 3 miles		Ocean 3 to 200 miles	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
	Thousands of pounds											
1993. .	205	24	2	100	0	0	2,731	5	13,027	2	5,177	4
1994. .	44	36	0	0	0	0	1,419	6	11,596	2	4,909	4
1995. .	764	21	0	0	0	0	4,632	6	14,071	3	5,610	6
1996. .	340	16	0	0	0	0	8,172	5	10,493	3	4,560	4
1997. .	549	15	0	0	0	0	7,057	4	16,064	5	2,885	8

Note:--Est= Estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.


WORLD COMMERCIAL CATCH BY LEADING COUNTRIES, 1992-1996
Metric Tons (millions)
35
30
25
20
15
10
5
0
1992
1993
1994
1995
1996
India
USA
Japan
Chile
Peru
China

U.S. AND WORLD COMMERCIAL FISH CATCHES, 1958-96

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel value	Fresh-water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	-Million metric tons- Live weight		Billion dollars	- - - - - -Million metric tons- - - - - - Live weight				
1958...	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959...	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960...	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961...	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962...	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963...	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964...	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965...	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966...	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967...	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968...	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969...	1.9	2.5	0.5	7.6	9.7	47.1	56.8	64.4
1970...	2.2	2.8	0.6	8.4	13.1	44.1	57.2	65.6
1971...	2.3	2.9	0.7	9.0	11.2	45.9	57.1	66.1
1972...	2.2	2.8	0.7	5.7	4.8	51.5	56.3	62.0
1973...	2.2	2.8	0.9	5.8	1.7	55.2	56.9	62.7
1974...	2.3	2.8	0.9	5.8	4.0	56.0	60.0	65.8
1975...	2.2	2.8	1.0	6.0	3.3	56.4	59.7	65.7
1976...	2.4	3.0	1.3	5.7	4.3	59.1	63.4	69.1
1977...	2.4	3.0	1.5	5.8	0.8	61.6	62.4	68.2
1978...	2.7	3.4	1.9	5.7	1.4	63.1	64.5	70.2
1979...	2.8	3.5	2.2	5.9	1.4	63.6	65.0	70.9
1980...	2.9	3.6	2.2	6.2	0.8	65.1	65.9	72.1
1981...	2.7	3.8	2.4	6.6	1.6	66.4	68.0	74.6
1982...	2.9	4.0	2.4	6.8	1.8	68.2	70.0	76.8
1983...	2.9	4.3	2.4	7.5	0.1	69.9	70.0	77.5
1984...	2.9	5.0	2.3	8.0	0.1	75.8	75.9	83.9
1985...	2.8	4.9	2.3	8.7	1.0	76.7	77.7	86.4
1986...	2.7	5.2	2.8	9.7	4.9	78.2	83.1	92.8
1987...	3.1	6.0	3.1	10.4	2.1	81.9	84.0	94.4
1988...	3.3	5.9	3.5	11.1	3.6	84.4	88.0	99.1
1989...	3.8	5.8	3.2	11.4	5.4	83.3	88.7	100.1
1990...	4.3	5.9	3.5	12.2	3.8	83.0	86.8	99.0
1991...	4.3	5.5	3.3	12.3	4.0	82.6	86.6	98.9
1992...	4.4	5.6	3.7	13.1	6.2	82.4	88.6	101.7
1993...	4.7	5.9	3.5	14.6	8.5	82.1	90.6	105.2
1994...	4.7	5.9	3.8	16.2	12.5	84.8	97.3	113.5
1995...	4.4	5.6	3.7	18.2	8.6	90.5	99.1	117.3
1996...	4.3	5.4	3.5	19.9	8.9	92.2	101.1	121.0

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous fishes including salmon and other anadromous fishes and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1996, data for marine mammals and aquatic plants are excluded.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome; various volumns.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1992(1)	1993(1)	1994(1)	1995(1)	1996
	Thousand metric tons Live-weight				
China	16,579	19,708	23,834	28,418	31,937
Peru	7,508	9,008	12,005	8,943	9,522
Chile	6,502	6,035	7,839	7,591	6,911
Japan	8,502	8,081	7,398	6,787	6,793
United States (2)	5,604	5,940	5,926	5,638	5,394
India	4,233	4,546	4,738	4,906	5,260
Russian Federation	5,611	4,461	3,781	4,374	4,729
Indonesia	3,439	3,685	3,917	4,145	4,402
Thailand	3,246	3,385	3,522	3,756	3,648
Norway	2,561	2,588	2,551	2,803	2,963
South Korea	2,696	2,649	2,701	2,688	2,772
Philippines	2,272	2,226	2,233	2,221	2,133
Iceland	1,577	1,718	1,560	1,616	2,064
North Korea (3)	1,780	1,782	1,802	1,850	1,800
Denmark	1,997	1,657	1,916	2,044	1,723
Mexico	1,248	1,201	1,267	1,359	1,499
Spain (3)	1,255	1,220	1,310	1,370	1,289
Bangladesh	967	1,047	1,091	1,173	1,264
Malaysia	1,105	1,155	1,182	1,245	1,240
Argentina	705	932	950	1,149	1,239
Taiwan	1,314	1,411	1,249	1,288	1,230
Viet Nam (3)	1,080	1,100	1,150	1,100	1,000
United Kingdom	870	929	964	1,004	978
Canada	1,337	1,183	1,076	933	971
Burma	800	837	924	832	873
Brazil (3)	790	780	820	805	850
France	821	830	854	882	828
Ecuador	361	328	345	612	794
Morocco	548	623	752	846	640
Italy	558	564	576	614	560
Pakistan	553	622	552	542	555
Turkey	454	559	603	652	555
New Zealand	503	471	492	613	493
Venezuela	334	397	441	505	490
Ghana	427	376	336	354	477
Netherlands	487	533	529	522	463
Ukraine	526	371	311	414	450
South Africa	696	565	525	578	440
Senegal	370	382	350	359	436
Iran	334	318	332	368	382
All others	9,178	9,003	8,754	9,379	8,963
Total	*101,728*	*105,206*	*113,458*	*117,278*	*121,010*

(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT, 1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Continent	1992(1)	1993(1)	1994(1)	1995(1)	1996
	Thousand metric tons Live-weight				
North America	8,756	8,871	8,835	8,528	8,423
South America	16,574	17,832	22,745	20,018	20,216
Europe	12,739	12,598	12,835	13,598	13,459
Former USSR	6,846	5,411	4,529	5,216	5,570
Asia	50,468	54,258	58,300	63,189	67,034
Africa	5,294	5,200	5,181	5,585	5,271
Oceania	917	888	894	1,028	880
Other	134	148	139	116	157
Total	***101,728***	***105,206***	***113,458***	***117,278***	***121,010***

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Area	1992(1)	1993(1)	1994(1)	1995(1)	1996
	Thousand metric tons Live-weight				
Marine Areas:					
Pacific Ocean	54,378	56,393	63,057	63,201	64,903
Atlantic Ocean	24,343	23,690	23,648	24,827	24,706
Indian Ocean	7,363	7,869	7,737	8,010	8,242
Total	***86,084***	***87,952***	***94,442***	***96,038***	***97,851***
Inland waters:					
North America	584	579	573	540	561
South America	357	375	403	425	402
Europe	504	497	509	527	513
Former USSR	667	544	460	416	416
Asia	11,668	13,372	15,245	17,335	19,326
Africa	1,839	1,864	1,805	1,974	1,919
Oceania	25	23	21	23	22
Total	***15,644***	***17,254***	***19,016***	***21,240***	***23,159***
Grand total	***101,728***	***105,206***	***113,458***	***117,278***	***121,010***

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1992-96, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1992(1)	1993(1)	1994(1)	1996(1)	1996
	- - - - - - - - - Thousand metric tons - - - - - - - - -				
	Live weight				
Carps, barbels, cyprinids.....	7,081	8,185	9,530	10,970	12,340
Cods, hakes, haddocks.....	10,435	9,915	9,641	10,606	10,712
Flatfish.....	1,170	1,105	992	925	940
Herrings, sardines, anchovies...	21,196	21,895	25,836	21,975	22,323
Jacks, mullets, sauries.....	10,541	10,129	10,061	11,050	11,329
Mackerel, snoeks, cutlassfishes.	3,452	4,008	4,514	4,688	5,137
Redfish, basses, congers.....	6,060	5,819	6,445	7,031	6,827
River eels.....	209	203	206	202	229
Salmons, trouts, smelts.....	1,467	1,700	1,803	2,089	2,102
Shads.....	694	656	634	685	723
Sharks, rays, chimaeras.....	728	741	752	757	759
Sturgeons, paddlefish.....	14	9	8	7	6
Tilapias.....	1,064	1,084	1,129	1,251	1,319
Tunas, bonitos, billfishes.....	4,512	4,556	4,623	4,708	4,587
Other fishes.....	16,409	17,351	17,490	18,277	19,215
Crabs.....	1,062	1,068	1,259	1,267	1,339
Krill.....	305	89	84	119	101
Lobsters.....	214	211	222	228	223
Shrimp.....	2,970	2,924	3,128	3,217	3,385
Other crustaceans.....	909	1,159	1,299	1,515	1,681
Abalones, winkles, conchs.....	85	94	100	99	107
Clams, cockles, arkshells.....	2,125	2,473	2,635	2,729	2,703
Mussels.....	1,394	1,368	1,321	1,416	1,382
Oysters.....	1,711	2,032	2,821	3,248	3,224
Scallops.....	1,056	1,459	1,634	1,653	1,739
Squids, cuttlefishes, octopus...	2,737	2,715	2,773	2,861	3,038
Other mollusks.....	1,511	1,833	2,012	3,075	2,813
Sea urchins, other echinoderms..	102	105	117	127	118
Miscellaneous.....	515	320	389	503	609
Total.....	*101,728*	*105,206*	*113,458*	*117,278*	*121,010*

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO)

DISPOSITION OF WORLD COMMERCIAL CATCH, 1992-96 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Item	1992(1)	1993(1)	1994 (1)	1995 (1)	1996
	- - - - - - - - - Percent of Total - - - - - - - - -				
[illegible] fresh.....	25.7	25.3	25.8	29.5	32.2
[illegible].....	24.3	24.8	23.6	23.3	22.8
[illegible].....	12.3	12.2	11.1	10.9	10.3
[illegible].....	10.0	9.8	9.8	10.0	9.6
[illegible] to meal and oil (2).....	26.0	26.1	27.9	24.7	23.5
[illegible] purposes.....	1.7	1.8	1.8	1.6	1.6
Total.....	*100.0*	*100.0*	*100.0*	*100.0*	*100.0*

(1) Revised.

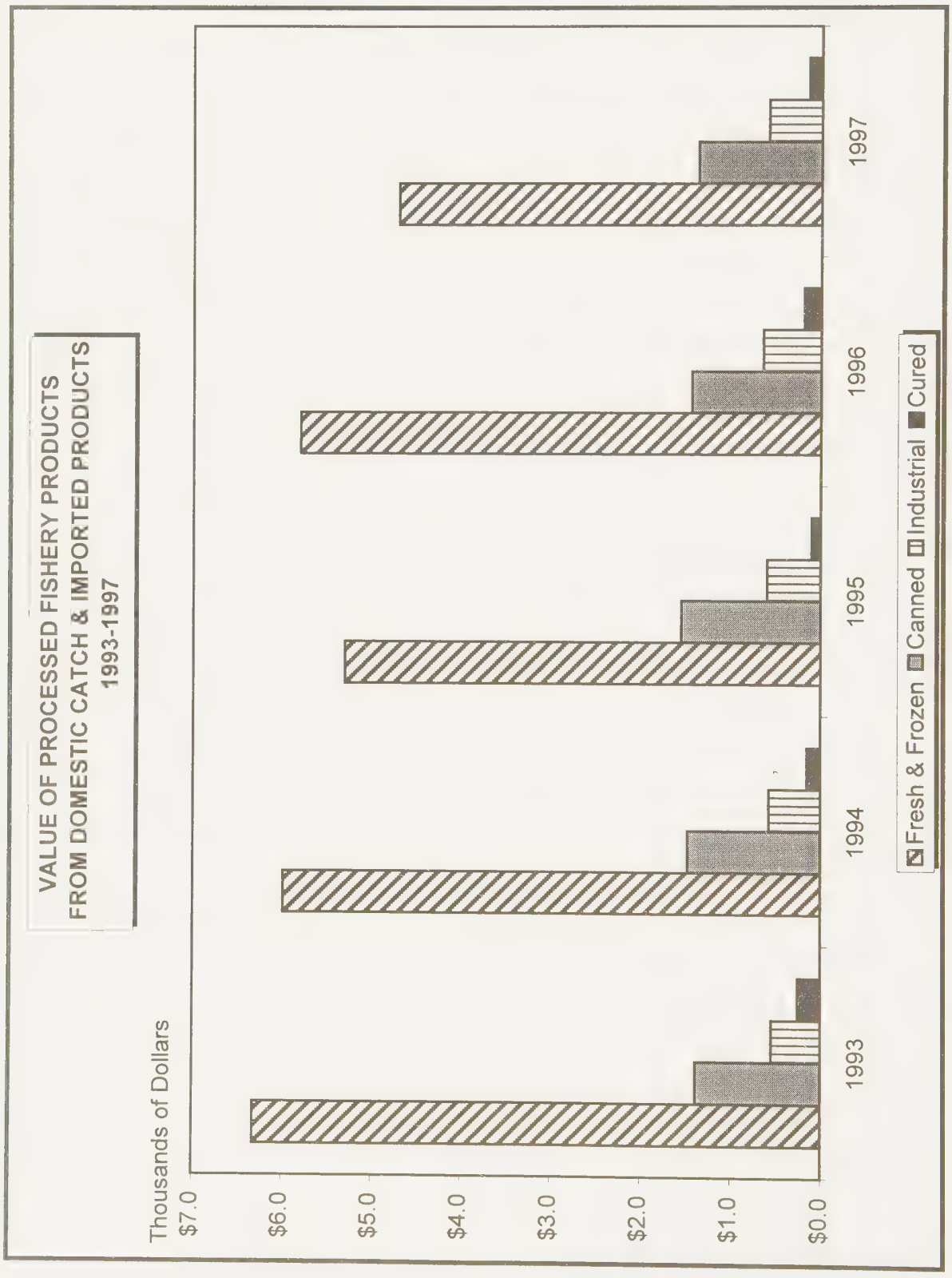
(2) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1992-96

Country	1992 (1)	1993 (1)	1994 (1)	1995 (1)	1996
	- - - - - - - - - - - -Thousand U.S. dollars- - - - - - - - - - - -				
IMPORTS:					
Japan	12,831,760	14,187,149	16,140,465	17,853,481	17,023,945
United States	6,024,064	6,290,233	7,043,431	7,141,428	7,080,411
France	2,934,588	2,556,151	2,796,719	3,221,298	3,194,133
Spain	2,898,232	2,629,799	2,638,737	3,105,684	3,134,893
Italy	2,643,440	2,131,181	2,257,462	2,281,316	2,590,985
Germany	2,190,892	1,884,301	2,316,449	2,478,817	254,957
United Kingdom	1,906,861	1,628,852	1,880,350	1,910,091	2,065,025
Hong Kong	1,398,181	1,376,856	1,647,106	1,831,511	1,928,143
Denmark	1,197,370	1,094,253	1,415,239	1,573,732	1,618,669
China	680,844	575,929	855,706	941,293	1,184,170
Canada	686,876	821,404	913,404	1,034,070	1,158,864
Netherlands	888,606	791,608	1,017,635	1,191,857	1,141,647
South Korea	498,036	537,346	718,451	824,817	1,057,402
Belgium	828,086	730,459	920,918	1,035,818	966,333
Thailand	942,090	830,480	815,616	825,606	818,353
Portugal	734,928	627,713	669,888	763,245	782,858
Singapore	543,769	566,502	619,595	659,681	641,782
Taiwan	491,029	544,243	560,799	589,723	612,945
Sweden	467,773	371,756	448,661	546,076	587,169
Other Countries	4,467,246	4,390,343	5,394,255	6,235,750	9,021,415
Total	***45,254,671***	***44,566,558***	***51,070,886***	***56,045,294***	***56,864,099***
EXPORTS:					
Thailand	3,071,780	3,404,268	4,190,036	4,449,457	4,117,865
Norway	2,436,832	2,302,346	2,735,485	3,122,662	3,415,696
United States	3,582,545	3,179,474	3,229,585	3,383,589	3,147,858
China	1,559,977	1,542,429	2,320,125	2,835,021	2,856,986
Denmark	2,319,917	2,150,665	2,359,034	2,459,629	2,698,976
Taiwan	1,802,097	2,369,422	2,213,259	2,328,105	2,362,200
Canada	2,085,495	2,055,438	2,182,078	2,314,413	2,291,261
Chile	1,252,364	1,124,679	1,303,974	1,704,260	1,697,258
Russian Federation	826,299	1,471,446	1,720,459	1,635,145	1,686,162
Indonesia	1,178,552	1,419,492	1,583,416	1,666,752	1,678,222
South Korea	1,359,050	1,335,238	1,411,052	1,564,878	1,512,992
Netherlands	1,405,567	1,296,340	1,435,824	1,447,239	1,470,046
Spain	712,729	813,750	1,021,015	1,190,676	1,461,486
Iceland	1,252,713	1,137,638	1,264,615	1,342,552	1,425,837
United Kingdom	1,146,138	1,036,674	1,180,158	1,195,477	1,307,859
Peru	517,119	685,004	979,502	869,727	1,120,391
Germany	692,954	652,956	790,357	899,248	1,055,756
France	955,379	857,752	909,734	993,364	1,003,460
India	673,369	835,980	1,125,440	1,104,641	978,352
Other Countries	11,383,320	11,728,959	13,659,341	15,597,714	15,683,255
Total	***40,214,196***	***41,399,950***	***47,614,489***	***52,104,549***	***52,971,918***

) Revised. Note:--Data on imports and exports cover the international trade of 176 countries or areas. The tal value of imports, probably because charges for insurance, freight, and similar expenses were included in e import value but not in the export value. The seven fishery commodity groups covered by this table are: Fish, fresh, chilled or frozen; 2.Fish, dried, salted, or smoked; 3.Crustaceans and mollusks, fresh, dried lted, etc.; 4.Fish products and preparations, whether or not in airtight containers; 5.Crustacean and llusk products and preparations, whether or not in airtight containers; 6.Oils and fats, crude or refined aquatic animal origin; and 7.Meals, solubles and similar animal foodstuffs of aquatic animal origin.
urce:--Food and Agriculture Organization of the United Nations (FAO)

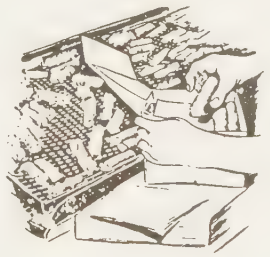

VALUE OF PROCESSED FISHERY PRODUCTS
FROM DOMESTIC CATCH & IMPORTED PRODUCTS
1993-1997
Thousands of Dollars
$7.0
$6.0
$5.0
$4.0
$3.0
$2.0
$1.0
$0.0
1993
1994
1995
1996
1997
Fresh & Frozen
Canned
Industrial
Cured

VALUE OF PROCESSED FISHERY PRODUCTS, 1996 AND 1997
(Processed from domestic catch and imported products)

Item	1996		1997 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	5,767,519	72	4,743,917	69
Canned	1,428,937	18	1,361,437	20
Cured	196,441	2	142,843	2
Total edible	**7,392,897**	**92**	**6,248,197**	**92**
Industrial:				
Bait and animal food (canned)	370,945	5	231,756	3
Meal, oil, and solubles	187,968	2	238,760	3
Other	85,583	1	108,590	2
Total industrial	**644,496**	**8**	**579,106**	**8**
Grand total	**8,037,393**	**100**	**6,827,303**	**100**

(1) Preliminary. May not add due to rounding.

Note:--Value is based on selling price at the plant.



FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1988-97

Year	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1988	80,148	113,868	301,450	439,701	99,471	292,899
1989	89,112	116,440	279,864	400,351	120,927	404,535
1990	65,209	74,866	242,776	352,589	110,760	353,265
1991	63,286	77,877	204,697	313,400	116,335	335,880
1992	58,295	56,020	194,307	296,214	122,266	350,497
1993	67,959	67,975	206,165	313,195	111,489	316,722
1994	58,789	51,429	196,289	268,353	113,461	304,931
1995	74,066	73,478	251,217	356,518	100,522	299,355
1996	65,244	55,802	213,962	306,501	108,486	341,770
1997	69,149	64,281	195,554	285,348	116,961	333,294

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1996 AND 1997

Species	1996 (1)		1997	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Amberjack	313	1,059	480	1,894
Anglerfish	6,993	15,426	7,042	17,660
Bluefish	108	246	132	282
Cod	67,203	158,413	78,793	178,517
Cusk	222	717	117	350
Dolphin	2,812	11,903	4,305	17,090
Drum	76	302	62	264
Flounders	29,178	79,541	25,507	75,462
Groupers	2,276	12,687	2,789	17,202
Haddock	3,682	13,853	6,772	24,058
Hake	33,960	36,587	18,783	16,878
Halibut	3,746	20,561	4,295	20,731
Lingcod	972	2,247	710	1,661
Marlin	564	1,900	522	1,634
Ocean perch:				
Atlantic	258	706	557	1,741
Pacific	1,737	4,297	1,418	2,786
Ocean pout	8	12	1	2
Pollock:				
Atlantic	1,970	5,004	1,071	2,336
Alaska	136,374	157,814	112,027	128,594
Rockfishes	20,218	41,913	14,876	30,008
Sablefish	1,600	3,603	1,206	2,741
Salmon	18,612	65,719	18,653	68,281
Sea bass	717	4,248	704	4,138
Sea trout	276	1,136	209	890
Shark	2,394	5,992	1,854	5,432
Snapper	1,875	11,515	2,223	11,364
Spanish mackerel	121	223	102	204
Swordfish	6,081	34,196	8,985	49,706
Tilapia	353	946	1,179	3,457
Tuna	9,297	59,881	10,187	64,169
Wahoo	244	1,196	220	1,021
Whitefish	1,335	3,755	965	2,889
Wolffish	66	209	58	174
Unclassified	16,744	48,826	18,995	61,241
Total	*372,385*	*806,633*	*345,799*	*814,857*
Steaks:				
Dolphin	274	1,084	272	1,077
Halibut	6,282	27,207	5,849	23,332
King mackerel	7	22	5	12
Salmon	3,380	9,900	1,584	3,313
Shark	12	27	100	212
Swordfish	2,933	12,725	3,187	14,408
Tuna	4,706	14,669	5,459	15,787
Unclassified	33,330	31,753	35,270	35,894
Total	*50,924*	*97,387*	*51,726*	*94,035*
Grand total	*423,309*	*904,020*	*397,525*	*908,892*

(1) Revised.

Note: Some fillet production was further processed into frozen blocks.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1996 AND 1997

Species	Pounds per case	1996			1997		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	266,325	6,232	10,826	250,855	5,870	11,172
Salmon:							
Chinook	44.25	2,599	115	628	678	30	174
Chum	44.25	337,627	14,940	19,572	175,864	7,782	7,039
Pink	44.25	2,947,797	130,440	158,969	2,604,678	115,257	140,999
Coho	44.25	61,876	2,738	5,594	59,367	2,627	6,809
Sockeye	44.25	1,105,763	48,930	99,582	690,169	30,540	97,790
Total salmon		*4,455,661*	*197,163*	*284,345*	*3,530,757*	*162,106*	*252,811*
Specialties	48	10,521	505	4,272	8,750	420	4,105
Sardines, Maine	23.4	755,214	17,672	29,857	682,735	15,976	29,027
Tuna: (2)							
Albacore:							
Solid	18	7,798,889	140,380	310,999	8,647,722	155,659	336,415
Chunk	18	1,403,000	25,254	51,691	1,646,333	29,634	58,177
Total		*9,201,889*	*165,634*	*362,690*	*10,294,056*	*185,293*	*394,592*
Lightmeat:							
Solid	18	331,722	5,971	8,938	408,833	7,359	11,233
Chunk	18	28,011,722	504,211	585,296	24,132,222	434,380	512,905
Total		*28,343,444*	*510,182*	*594,234*	*24,541,056*	*441,739*	*524,138*
Total tuna		*37,545,333*	*675,816*	*956,924*	*34,835,111*	*627,032*	*918,730*
Specialties	48	146	7	80	438	21	210
Other	48	324,063	15,555	12,169	373,896	17,947	18,694
Total fish	--	*43,357,262*	*912,950*	*1,298,473*	*39,682,541*	*817,632*	*1,234,749*
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	3,057,133	45,857	61,987	2,911,800	43,677	62,698
Chowder and juice	30	2,384,600	71,538	46,148	2,330,433	69,913	43,175
Specialties	48	249,042	11,954	9,100	235,125	11,286	8,703
Crabs, natural	20	4,769	93	380	4,256	83	446
Lobster meat and specialties	48	7,104	341	384	7,417	356	439
Oyster, specialties	48	167	8	131	604	29	111
Shrimp, Natural (4)	6.75	121,333	819	6,074	173,037	1,168	4,557
Other	48	194,771	9,349	6,260	179,396	8,611	6,559
Total shellfish	--	*6,018,919*	*139,959*	*130,464*	*5,842,068*	*135,123*	*126,688*
Total for human consumption	--	*49,376,181*	*1,052,909*	*1,428,937*	*45,524,610*	*952,755*	*1,361,437*
For bait and animal food	*48*	*17,168,625*	*824,094*	*370,945*	*12,756,667*	*612,320*	*231,756*
Grand total	--	*66,544,806*	*1,877,003*	*1,799,882*	*58,281,276*	*1,565,075*	*1,593,193*

(1) Revised.
(2) Flakes included with chunk.
(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.
(4) Drained weight.

INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL, OIL, AND SOLUBLES, 1996 AND 1997

Product	1996		1997	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden	418,898	87,064	478,496	115,690
Tuna and mackerel	56,770	8,394	56,108	9,208
Unclassified	149,808	41,290	171,940	47,775
Total	***625,476***	***136,748***	***706,544***	***172,673***
Shellfish	17,648	1,207	18,124	1,263
Total, scrap and meal	***643,124***	***137,955***	***724,668***	***173,936***
Solubles, total	***81,994***	***6,068***	***144,002***	***9,537***
Body oil:				
Menhaden	246,536	43,713	278,042	53,673
Unclassified	1,863	232	5,337	1,614
Total, oil	***248,399***	***43,945***	***283,379***	***55,287***

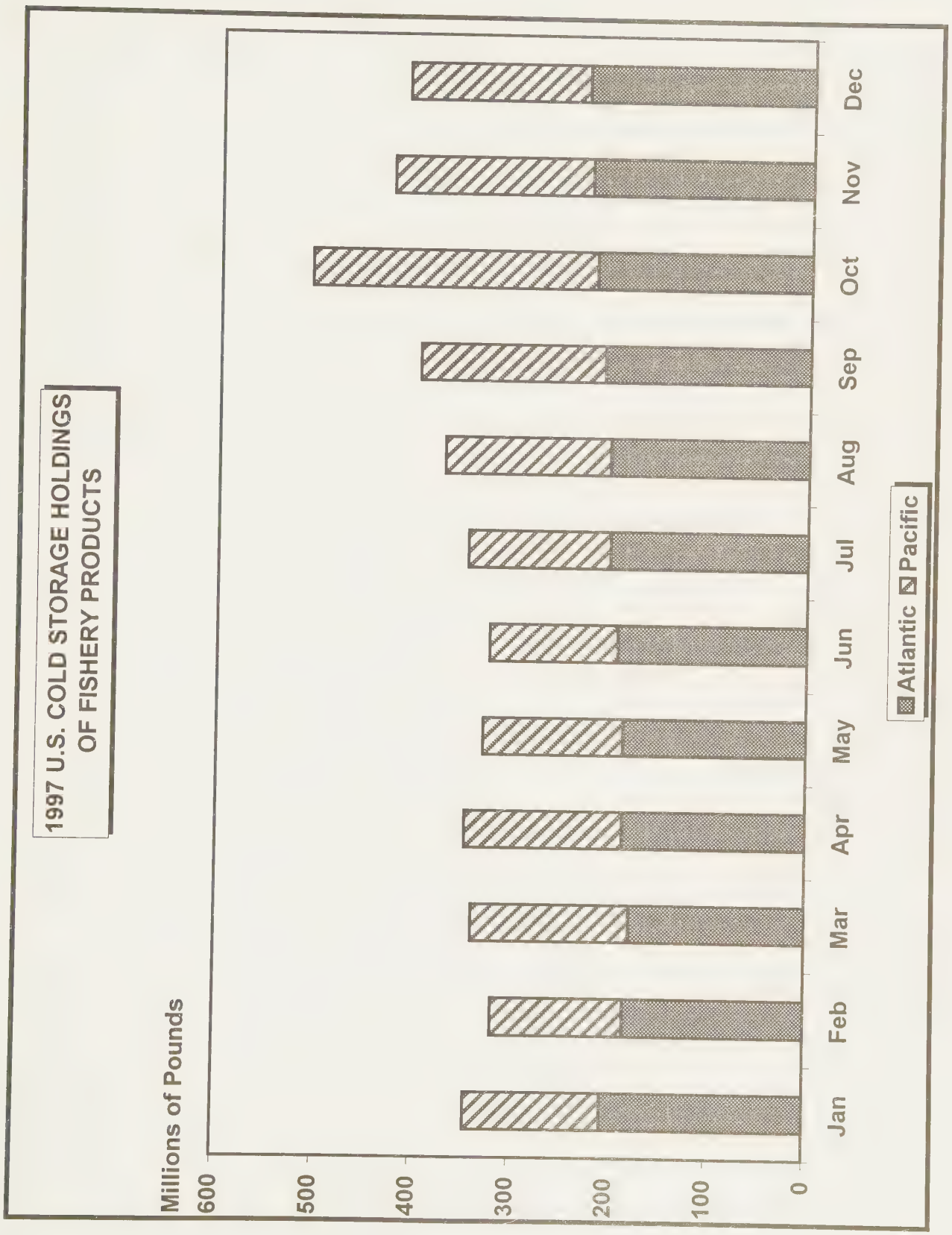
(1) Revised.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1988-97

Year	Quantity			Value		
	Meal	Solubles	Marine animal oil	Meal, solubles, and oil	Other industrial products	Grand total
	----------Thousand pounds----------			----------Thousand dollars----------		
1988	643,796	223,449	224,733	188,843	46,737	235,580
1989	618,382	232,709	225,478	156,321	49,756	206,077
1990	577,498	185,660	281,949	163,796	42,759	206,555
1991	612,716	169,607	267,345	170,495	37,707	208,202
1992	644,512	93,007	184,725	157,693	45,310	203,003
1993	750,744	126,903	293,452	182,170	43,689	225,859
1994	807,833	146,568	291,882	186,222	61,992	248,214
1995	667,240	89,513	241,941	172,279	74,264	246,543
1996	643,124	81,994	248,399	187,968	85,583	273,551
1997	724,668	144,002	283,379	238,760	108,590	347,350

Note:--Does not include the value of imported items that may be further processed.


1997 U.S. COLD STORAGE HOLDINGS
OF FISHERY PRODUCTS
Millions of Pounds
600
500
400
300
200
100
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Atlantic
Pacific

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	3,869	1,997	1,545	3,359	5,101	6,323
Flounder and sole	940	803	772	747	1,081	1,042
Haddock	1,094	653	624	2,592	2,704	2,265
Ocean perch	174	111	96	1,027	40	65
Pollock:						
Alaska (walleye)	21,380	17,656	20,493	18,697	19,946	24,623
Atlantic or other	9,515	8,643	10,082	9,712	9,650	11,167
Whiting:						
Silver (Atl) hake	578	819	613	1,026	1,130	1,230
Pacific hake	356	172	478	298	248	244
Minced	10,237	9,270	9,164	8,430	10,103	10,749
Unclassified (3)	2,816	1,266	1,440	1,337	1,212	1,220
Total, blocks and slabs	***50,959***	***41,390***	***45,307***	***47,225***	***51,215***	***58,928***
Fillets and steaks:						
Cod	13,710	14,753	17,963	23,938	27,648	26,640
Flounder and sole	3,701	3,916	2,249	4,653	3,935	3,408
Haddock	3,162	2,775	2,633	3,343	3,118	4,019
Halibut	374	359	352	352	431	772
Ocean perch	4,374	3,185	2,259	2,185	1,713	1,360
Pollock:						
Alaska (walleye)	6,117	11,491	14,935	12,878	11,953	10,321
Atlantic or other	5,406	4,327	4,251	4,743	4,097	4,868
Rockfish	395	356	305	138	162	323
Salmon	2,691	2,492	2,087	2,218	2,172	2,008
Whiting:						
Silver (Atl) hake	3,890	3,717	3,768	2,059	2,628	4,113
Pacific hake	1,308	1,106	826	668	544	899
Unclassified	19,323	17,917	19,510	20,104	21,053	19,108
Total, fillets and steaks	***64,451***	***66,394***	***71,138***	***77,279***	***79,454***	***77,839***
Round, dressed, etc.:						
Halibut (exc. California)	4,194	3,746	3,030	2,874	4,712	8,243
Sablefish	134	98	124	292	568	678
Salmon:						
Chinook or king	1,866	1,565	1,444	1,042	1,111	1,182
Silver or coho	3,559	2,590	1,705	1,200	764	562
Chum or fall	14,345	10,180	6,190	3,406	1,577	1,158
Pink	1,944	1,259	1,317	1,020	211	219
Sockeye	4,499	4,872	3,830	2,109	1,461	1,632
Unclassified	2,154	1,731	1,880	1,886	1,459	2,633
Total, salmon	***28,367***	***22,197***	***16,366***	***10,663***	***6,583***	***7,386***
Whiting:						
Silver (Atl) hake	246	175	195	98	62	109
Pacific hake	340	100	348	525	601	699
Unclassified (exc bait)	47,148	35,254	40,108	40,484	32,075	26,688
Total, round, dressed, etc.	***80,429***	***61,570***	***60,171***	***54,936***	***44,601***	***43,803***

See footnotes at end of table.

(Continued on next page)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Fish sticks and portions (2):	23,087	19,810	18,960	21,968	24,391	25,435
Analog products	4,824	3,925	3,633	4,108	3,680	4,089
Surimi: Pollock	12,197	15,347	18,194	16,786	12,557	12,782
Other	4	353	597	24	35	70
Total, saltwater	***235,951***	***208,789***	***218,000***	***222,326***	***215,933***	***222,946***
Freshwater:						
Fillets and steaks	137	95	68	72	60	643
Catfish	12,711	12,076	11,398	11,477	10,534	10,143
Rainbow trout	939	941	1,037	1,122	1,005	1,174
Unclassified (exc bait)	894	302	385	352	271	123
Total, freshwater	***14,681***	***13,414***	***12,888***	***13,023***	***11,870***	***12,083***
Bait & animal food	***12,864***	***13,132***	***10,709***	***14,223***	***14,143***	***13,945***
Shellfish						
Clams and clam meats	2,028	5,871	5,823	7,417	8,058	8,109
Crabs:						
Dungeness	1,494	1,980	597	623	517	584
King:						
Meat	27	20	22	15	14	26
Sections	5,036	4,813	5,747	5,583	4,332	4,856
Snow:						
Meat	582	796	675	763	592	701
Sections	2,195	4,929	17,244	20,290	17,646	13,375
Unclassified	1,710	1,500	4,931	5,606	4,893	3,404
Total, crabs	***11,044***	***14,038***	***29,216***	***32,880***	***27,994***	***22,946***
Lobsters:						
Spiny (tails)	2,992	2,352	1,824	1,503	1,111	1,525
Unclassified (whole & meat)	1,363	1,160	1,137	924	746	587
Oyster meats	799	578	908	1,218	1,259	1,288
Scallop meats	2,023	2,601	2,844	2,881	2,885	3,097
Shrimp:						
Raw, headless	10,765	12,218	11,486	10,553	8,103	6,828
Breaded	5,658	4,725	4,039	5,987	5,998	4,647
Peeled	14,895	9,683	7,893	8,864	9,103	6,320
Unclassified	12,129	8,940	8,098	8,127	7,650	7,640
Total, shrimp	***43,447***	***35,566***	***31,516***	***33,531***	***30,854***	***25,435***
Squid	12,780	17,026	19,036	13,403	10,019	7,691
Unclassified shellfish	3,035	3,181	3,004	2,977	2,798	2,918
Total, shellfish	***79,511***	***82,373***	***95,308***	***96,734***	***85,724***	***73,596***
Total, fish and shellfish	***343,007***	***317,708***	***336,905***	***346,306***	***327,670***	***322,570***
Cured fish (all categories)	***801***	***700***	***1,152***	***1,339***	***770***	***514***
Grand total	***343,808***	***318,408***	***338,057***	***347,645***	***328,440***	***323,084***

See footnotes at end of table.

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U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	4,395	6,477	6,676	7,544	8,756	8,632
Flounder and sole	669	1,487	2,344	2,260	2,265	1,905
Haddock	2,063	1,418	1,074	1,604	1,395	2,083
Ocean perch	59	141	51	124	218	207
Pollock:						
Alaska (walleye)	25,422	24,113	25,369	25,839	24,677	25,246
Atlantic or other	10,665	11,081	8,523	8,627	9,681	8,866
Whiting:						
Silver (Atl) hake	1,081	890	577	595	855	847
Pacific hake	172	172	282	17	16	0
Minced	12,350	10,312	12,284	11,685	9,991	9,851
Unclassified (3)	1,385	1,290	1,801	2,179	2,043	2,652
Total, blocks and slabs	***58,261***	***57,381***	***58,981***	***60,474***	***59,897***	***60,289***
Fillets and steaks:						
Cod	29,984	25,285	23,453	21,339	21,575	25,521
Flounder and sole	4,056	5,680	4,432	4,116	6,753	5,441
Haddock	5,621	1,586	3,187	2,290	1,081	3,760
Halibut	1,052	1,641	1,451	1,418	2,062	1,562
Ocean perch	1,526	1,314	1,757	1,580	1,505	2,032
Pollock:						
Alaska (walleye)	9,542	7,395	8,523	10,827	10,255	9,753
Atlantic or other	6,474	4,392	4,417	4,124	3,796	3,157
Rockfish	238	188	222	206	356	351
Salmon	2,211	4,221	4,605	4,811	4,622	4,488
Whiting:						
Silver (Atl) hake	4,589	4,329	3,079	2,440	1,978	1,704
Pacific hake	1,899	2,541	2,618	3,053	2,969	3,068
Unclassified	21,555	21,828	21,250	26,060	24,407	22,198
Total, fillets and steaks	***88,747***	***80,400***	***78,994***	***82,264***	***81,359***	***83,035***
Round, dressed, etc.:						
Halibut (exc. California)	10,539	12,748	14,762	15,745	16,241	14,439
Sablefish	1,451	1,614	2,195	1,744	1,738	1,448
Salmon:						
Chinook or king	3,084	2,680	4,096	4,098	3,778	3,076
Silver or coho	1,238	1,864	3,694	5,543	5,162	4,445
Chum or fall	14,785	26,418	25,919	26,743	28,872	24,698
Pink	1,100	7,578	13,180	11,196	9,580	7,654
Sockeye	3,288	5,370	6,521	5,661	4,655	4,372
Unclassified	2,776	3,669	4,984	4,209	4,389	3,693
Total, salmon	***26,271***	***47,579***	***58,394***	***57,450***	***56,436***	***47,938***
Whiting:						
Silver (Atl) hake	91	224	279	204	133	15
Pacific hake	973	2,339	2,063	1,089	1,042	978
Unclassified (exc bait)	26,461	35,010	39,495	40,192	42,579	35,053
Total, round, dressed, etc.	***65,786***	***99,514***	***117,188***	***116,424***	***118,169***	***99,871***

See footnotes at end of table.

(Continued on next page)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1997 - Continued

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Fish Sticks and Portions (2):	20,326	22,020	24,803	26,875	30,354	31,966
Analog products	4,260	4,192	4,844	4,199	4,102	3,375
Surimi: Pollock	11,190	11,851	13,351	19,892	19,780	18,398
Other	102	58	57	51	54	145
Total, Saltwater	***248,672***	***275,416***	***298,218***	***310,179***	***313,715***	***297,079***
Freshwater:						
Fillets and steaks	117	181	164	262	167	219
Catfish	10,120	10,243	9,551	10,295	11,039	12,648
Rainbow trout	1,602	674	645	611	1,055	1,245
Unclassified (exc bait)	182	343	185	124	33	253
Total, Freshwater	***12,021***	***11,441***	***10,545***	***11,292***	***12,294***	***14,365***
Bait & Animal Food	***11,230***	***11,458***	***11,271***	***11,749***	***12,102***	***11,271***
Shellfish						
Clams and clam meats	7,192	6,822	6,481	2,447	2,665	2,993
Crabs:						
Dungeness	930	1,060	1,225	1,318	1,297	2,643
King:						
Meat	48	54	35	66	61	69
Sections	5,483	4,399	4,808	8,773	8,697	8,581
Snow:						
Meat	746	667	699	785	905	918
Sections	10,060	7,692	6,362	5,287	5,400	2,799
Unclassified	1,786	2,119	2,569	2,766	3,057	2,359
Total, crabs	***19,053***	***15,991***	***15,698***	***18,995***	***19,417***	***17,369***
Lobsters:						
Spiny (tails)	2,139	3,211	3,560	4,174	4,470	4,740
Unclassified (whole & meat)	952	1,297	1,437	1,553	1,470	1,832
Oyster meats	1,274	1,256	1,164	1,118	703	699
Scallop meats	3,246	2,957	2,887	2,691	2,259	2,313
Shrimp:						
Raw, headless	7,037	9,408	11,336	13,244	11,055	15,199
Breaded	5,168	5,567	5,813	5,882	6,112	6,412
Peeled	8,584	8,714	10,684	11,190	16,522	12,417
Unclassified	8,211	7,740	8,348	11,334	12,119	13,664
Total, shrimp	***29,000***	***31,429***	***36,181***	***41,650***	***45,808***	***47,692***
Squid	7,412	6,004	4,768	4,254	3,867	3,066
Unclassified shellfish	2,906	3,151	3,266	6,876	7,080	6,546
Total, shellfish	***73,174***	***72,118***	***75,442***	***83,758***	***87,739***	***87,250***
Total, fish and shellfish	***345,097***	***370,433***	***395,476***	***416,978***	***425,850***	***409,965***
Cured fish (all categories)	***1,025***	***712***	***971***	***90,815***	***742***	***1,051***
Grand total	***346,122***	***371,145***	***396,447***	***507,793***	***426,592***	***411,016***

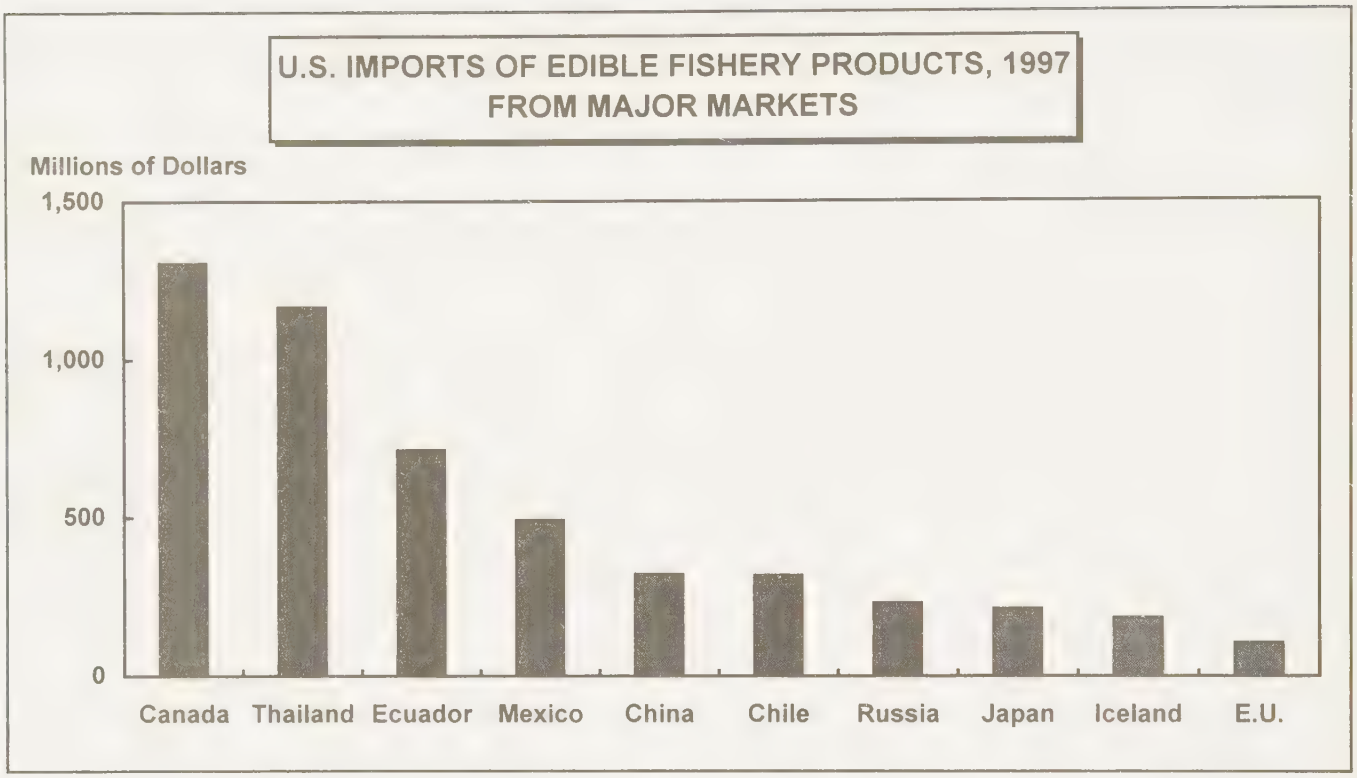
(1) Unclassified may also include blocks and slabs made from species listed separately.

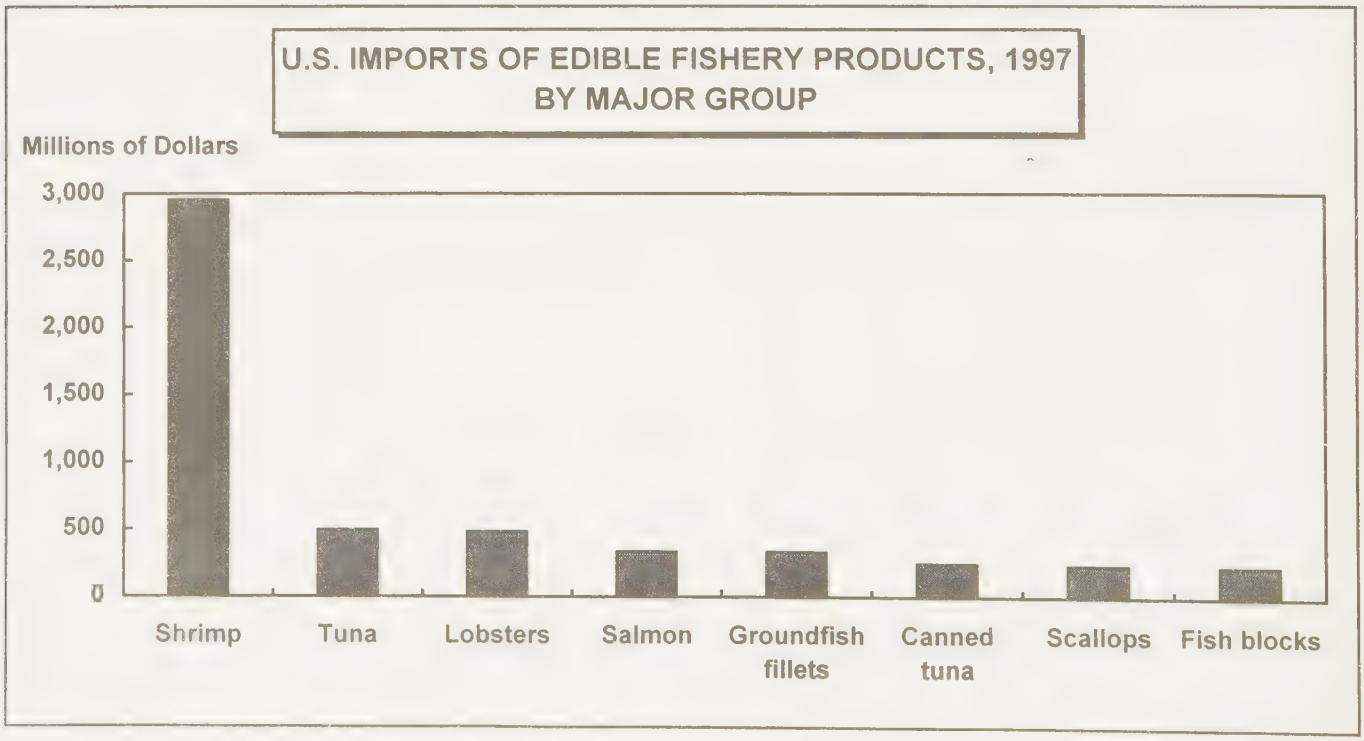
(2) Fish sticks and portions include all species that are either cook or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more.

FOREIGN TRADE

IMPORTS





IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1996 AND 1997

Item	1996			1997		
Edible fishery products:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	64,923	29,449	68,072	76,224	34,575	72,031
Flatfish	31,371	14,230	56,929	36,993	16,780	70,861
Groundfish	59,760	27,107	47,080	63,700	28,894	52,363
Salmon	142,258	64,528	304,612	162,803	73,847	344,427
Tuna (1)	528,703	239,818	509,783	438,493	198,899	494,181
Other	228,211	103,516	274,515	253,280	114,887	330,870
Fillets and steaks:						
Freshwater	26,133	11,854	74,688	30,719	13,934	83,563
Flatfish	45,091	20,453	96,092	42,679	19,359	92,067
Groundfish	178,209	80,835	310,417	176,125	79,890	334,206
Other	227,036	102,983	448,706	265,282	120,331	551,753
Blocks and slabs	234,210	106,237	213,323	233,972	106,129	231,008
Surimi	29,312	13,296	15,956	22,553	10,230	10,879
Shrimp	578,908	262,591	2,448,468	644,702	292,435	2,942,635
Crabmeat	11,272	5,113	50,043	14,462	6,560	66,918
Lobster:						
American	37,948	17,213	220,988	40,798	18,506	238,881
Spiny	25,082	11,377	224,872	24,674	11,192	242,181
Scallops (meats)	58,686	26,620	197,855	60,146	27,282	237,078
Other fish and shellfish	219,702	99,656	481,321	273,933	124,255	626,023
Total, fresh and frozen	*2,726,817*	*1,236,876*	*6,043,720*	*2,861,538*	*1,297,985*	*7,021,925*
Canned:						
Anchovy	7,050	3,198	23,197	6,942	3,149	22,247
Herring	1,563	709	2,458	1,488	675	2,078
Mackerel	20,274	9,196	10,758	28,779	13,054	15,912
Salmon	2,266	1,028	6,219	1,228	557	4,793
Sardines	40,926	18,564	46,532	42,771	19,401	49,302
Tuna	193,037	87,561	215,892	212,171	96,240	249,963
Clams	11,054	5,014	12,410	9,855	4,470	10,807
Crabmeat	12,773	5,794	48,719	15,871	7,199	66,521
Lobsters	798	362	7,271	176	80	1,595
Oysters	10,198	4,626	28,753	9,934	4,506	24,795
Shrimp	3,563	1,616	9,032	3,620	1,642	10,954
Balls, cakes, and puddings	8,344	3,785	13,948	8,523	3,866	14,512
Other fish and shellfish	42,602	19,324	48,517	45,732	20,744	51,832
Total, canned	*354,449*	*160,777*	*473,706*	*387,090*	*175,583*	*525,311*
Cured:						
Dried	22,064	10,008	60,201	21,914	9,940	58,030
Pickled or salted	36,971	16,770	47,057	36,887	16,732	46,698
Smoked or kippered	8,382	3,802	24,462	10,234	4,642	26,875
Total, cured	*67,417*	*30,580*	*131,720*	*69,035*	*31,314*	*131,603*
Caviar and roe	5,088	2,308	35,305	4,286	1,944	31,169
Prepared meals	2,661	1,207	8,252	3,336	1,513	12,243
Other fish and shellfish	13,355	6,058	36,911	13,565	6,153	31,992
Total edible fishery products	*3,169,787*	*1,437,806*	*6,729,614*	*3,338,849*	*1,514,492*	*7,754,243*
Nonedible fishery products:						
Meal and scrap	135,561	61,490	33,981	142,049	64,433	36,484
Fish oils	35,622	16,158	18,967	25,622	11,622	23,388
Other	-	-	6,277,793	-	-	6,714,211
Total nonedible fishery fishery products	-	-	*6,330,741*	-	-	*6,774,083*
Grand total	-	-	*13,060,355*	-	-	*14,528,326*

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steak whole, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1997, Current Fishery Statistics No. 9702 provides additional information.

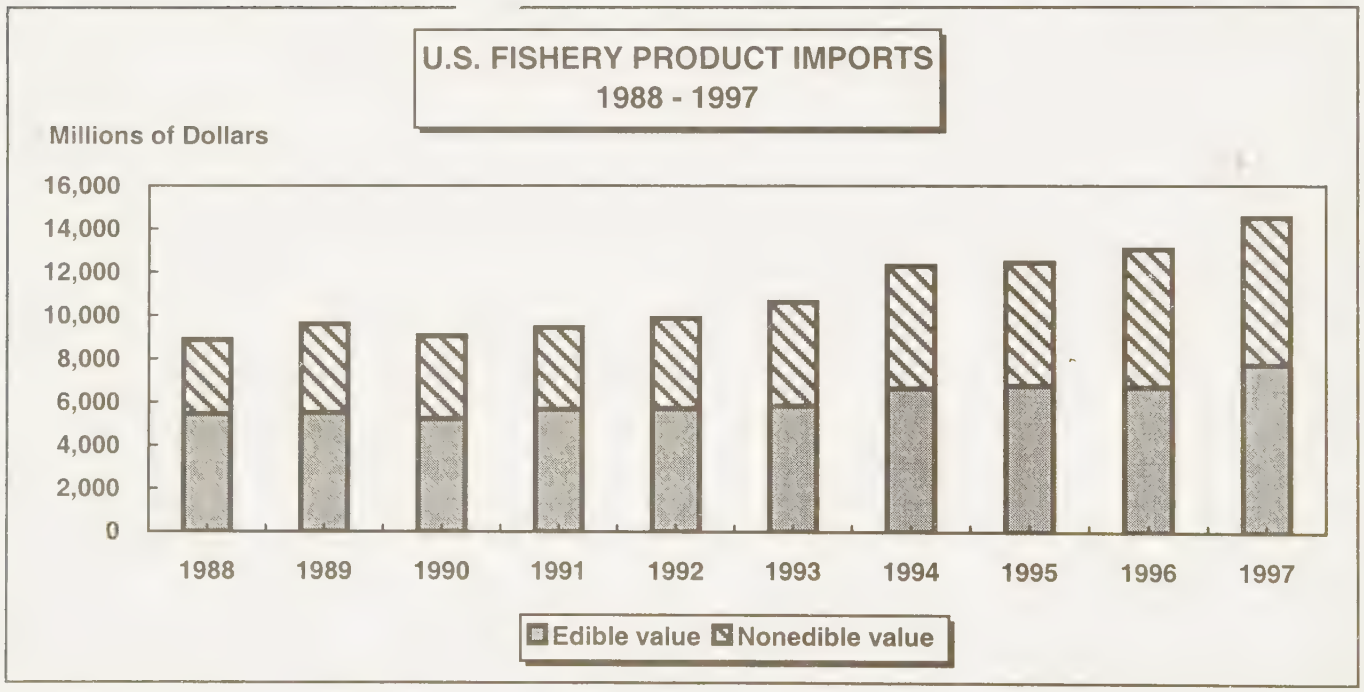
Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS. 1988-97

Year	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
1988	2,967,755	1,346,165	5,441,628	3,430,369	8,871,997
1989	3,243,022	1,471,025	5,497,849	4,106,507	9,604,356
1990	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326

Source:--U.S. Department of Commerce, Bureau of the Census.



IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1997

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	- - - - -Thousand dollars- - - - -		
North America:					
Canada	562,222	255,022	1,306,292	783,825	2,090,117
Mexico	146,520	66,461	492,190	201,478	693,668
Panama	42,663	19,352	116,727	6,495	123,222
Costa Rica	29,705	13,474	73,591	47,742	121,333
Costa Rica	35,571	16,135	111,281	8	111,289
Other	82,421	37,386	271,644	140,171	411,815
Total	***899,102***	***407,830***	***2,371,725***	***1,179,719***	***3,551,444***
South America:					
Ecuador	240,460	109,072	714,923	9,316	724,239
Chile	164,278	74,516	316,744	18,985	335,729
Peru	29,048	13,176	65,773	62,489	128,262
Brazil	18,206	8,258	69,577	43,609	113,186
Argentina	72,754	33,001	88,785	15,853	104,638
Other	68,806	31,210	190,446	59,864	250,310
Total	***593,551***	***269,233***	***1,446,248***	***210,116***	***1,656,364***
Europe:					
European Union:					
Italy	1,243	564	3,878	1,318,889	1,322,767
France	1,885	855	4,281	567,169	571,450
Germany	1,248	566	2,460	258,469	260,929
United Kingdom	8,675	3,935	19,501	150,872	170,373
Netherlands	9,056	4,108	25,137	65,982	91,119
Other	24,187	10,971	49,540	171,303	220,843
Total	***46,294***	***20,999***	***104,797***	***2,532,684***	***2,637,481***
Other:					
Russian Republic	129,154	58,584	230,124	3,194	233,318
Iceland	84,859	38,492	184,299	6,181	190,480
Norway	70,975	32,194	125,497	24,825	150,322
Turkey	613	278	1,617	116,354	117,971
Switzerland	4	2	69	92,228	92,297
Other	10,714	4,860	19,399	45,810	65,209
Total	***296,320***	***134,410***	***561,005***	***288,592***	***849,597***
Asia:					
Thailand	348,047	157,873	1,166,988	383,335	1,550,323
Japan	99,121	44,961	212,238	537,006	749,244
India	72,456	32,866	170,858	362,665	533,523
China	233,163	105,762	321,185	184,885	506,070
Hong Kong	9,134	4,143	14,880	419,097	433,977
Other	569,907	258,508	1,048,848	543,449	1,592,297
Total	***1,331,828***	***604,113***	***2,934,997***	***2,430,437***	***5,365,434***
Oceania:					
New Zealand	75,135	34,081	140,705	7,979	148,684
Australia	6,878	3,120	54,337	49,909	104,246
French Polynesia	1,155	524	2,210	27,145	29,355
Fiji	6,651	3,017	12,479	2,113	14,592
Western Samoa	7,928	3,596	8,961	29	8,990
Other	12,926	5,863	9,335	1,913	11,248
Total	***110,673***	***50,201***	***228,027***	***89,088***	***317,115***
Africa:					
South Africa	16,903	7,667	31,249	20,973	52,222
Namibia	12,890	5,847	30,854	693	31,547
Morocco	6,808	3,088	18,115	4,837	22,952
Mauritius	11,731	5,321	14,541	202	14,743
Tanzania	1,689	766	3,021	5,209	8,230
Other	11,060	5,017	9,664	11,533	21,197
Total	***61,081***	***27,706***	***107,444***	***43,447***	***150,891***
Grand total	***3,338,849***	***1,514,492***	***7,754,243***	***6,774,083***	***14,528,326***

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1996 AND 1997

Species and type	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	23,439	10,632	33,755	32,723	14,843	49,872
Flatfish	3,433	1,557	6,461	6,951	3,153	11,050
Haddock	12,740	5,779	18,122	14,650	6,645	21,378
Ocean perch	1,111	504	1,872	578	262	863
Pollock	144,234	65,424	109,985	133,528	60,568	101,772
Whiting	16,830	7,634	14,310	17,368	7,878	16,339
Other	6,903	3,131	6,450	9,630	4,368	12,069
Total	***208,690***	***94,661***	***190,955***	***215,427***	***97,717***	***213,343***
Minced blocks and slabs	25,520	11,576	22,368	18,545	8,412	17,665
Grand total	***234,210***	***106,237***	***213,323***	***233,972***	***106,129***	***231,008***

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	81,120	36,796	59,366	81,052	36,765	61,042
Russian Federation	74,848	33,951	61,670	67,833	30,769	58,146
Norway	12,335	5,595	17,485	18,219	8,264	26,415
Canada	15,227	6,907	15,454	13,774	6,248	16,587
Iceland	16,380	7,430	22,859	9,806	4,448	14,917
Denmark	5,333	2,419	8,296	6,252	2,836	10,404
Argentina	9,257	4,199	6,890	10,487	4,757	8,827
South Africa	3,084	1,399	4,274	3,602	1,634	5,248
New Zealand	642	291	757	3,444	1,562	4,535
Other	15,983	7,250	16,272	19,502	8,846	24,887
Total	***234,210***	***106,237***	***213,323***	***233,972***	***106,129***	***231,008***

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1996 AND 1997 (1)

Species	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	74,191	33,653	163,986	95,051	43,115	210,068
Haddock (2)	79,031	35,848	102,752	59,848	27,147	84,788
Ocean perch	24,987	11,334	43,679	21,226	9,628	39,350
Total	***178,209***	***80,835***	***310,417***	***176,125***	***79,890***	***334,206***

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Cenus.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1988-97

Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1988	85,186	38,640	193,784	87,900	278,970	126,540
1989	76,733	34,806	234,323	106,288	311,056	141,094
1990	87,157	39,534	171,472	77,779	258,628	117,313
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,715	63,374	218,335	99,036

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1997, 6 percent.

(2) Dutiable in 1972 to 1997, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	95,869	43,486	113,345	99,513	45,139	129,163
Philippines	64,639	29,320	60,569	80,677	36,595	80,161
Indonesia	28,168	12,777	35,150	20,911	9,485	27,215
Malaysia	2,079	943	3,753	2,784	1,263	4,894
Mexico	375	170	277	4,868	2,208	3,789
Namibia	-	-		825	374	1,342
Ecuador	906	411	852	1,058	480	1,033
Fiji	64	29	106	536	243	756
Spain	247	112	675	196	89	499
Other	690	313	1,165	802	364	1,111
Total	***193,037***	***87,561***	***215,892***	***212,171***	***96,240***	***249,963***

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1996 AND 1997

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico	67,873	30,787	327,720	74,864	33,958	374,102
Panama	19,092	8,660	68,574	23,236	10,540	87,128
Honduras	19,559	8,872	69,564	18,027	8,177	70,177
El Salvador	12,079	5,479	38,624	7,390	3,352	29,974
Nicaragua	7,432	3,371	25,298	7,564	3,431	28,663
Canada	19,744	8,956	26,611	11,254	5,105	26,326
Guatemala	9,178	4,163	29,595	4,773	2,165	19,055
Costa Rica	3,364	1,526	15,511	3,951	1,792	15,870
Belize	1,105	501	4,292	1,625	737	7,399
Greenland	939	426	2,503	820	372	1,873
Other	64	29	246	79	36	235
Total	*160,429*	*72,770*	*608,538*	*153,583*	*69,665*	*660,802*
South America:						
Ecuador	97,194	44,087	369,817	140,517	63,738	583,262
Venezuela	15,119	6,858	47,862	19,098	8,663	76,162
Peru	4,469	2,027	18,196	9,883	4,483	45,577
Colombia	6,695	3,037	26,506	7,172	3,253	28,539
Guyana	8,814	3,998	22,220	9,453	4,288	25,675
Brazil	1,997	906	6,528	1,215	551	4,856
Suriname	-	-	-	1,396	633	4,255
Chile	664	301	2,353	750	340	2,740
Argentina	-	-	-	42	19	46
Total	*134,952*	*61,214*	*493,482*	*189,525*	*85,968*	*771,112*
Europe:						
European Union:						
Denmark	787	357	2,112	397	180	798
Spain	2	1	7	44	20	241
United Kingdom	256	116	567	53	24	204
Germany	7	3	20	35	16	68
Netherlands	22	10	48	11	5	29
Other	291	132	931	20	9	74
Total	*1,365*	*619*	*3,685*	*560*	*254*	*1,414*
Other:						
Iceland	494	224	1,636	313	142	999
Norway	291	132	1,032	119	54	372
Other	2	1	20	-	-	-
Total	*787*	*357*	*2,688*	*432*	*196*	*1,371*
Asia:						
Thailand	160,310	72,716	888,410	161,822	73,402	920,946
Indonesia	21,792	9,885	110,711	28,272	12,824	161,615
India	41,773	18,948	118,590	44,103	20,005	138,698
Bangladesh	20,357	9,234	109,623	21,539	9,770	132,487
China	17,077	7,746	35,407	28,393	12,879	67,763
Viet Nam	5,686	2,579	28,226	7,837	3,555	46,234
Philippines	2,676	1,214	12,332	2,617	1,187	12,983
Pakistan	5,355	2,429	14,089	2,967	1,346	11,111
Burma	1,312	595	5,363	1,398	634	6,763
Singapore	1,958	888	5,976	811	368	4,341
Other	6,069	2,753	19,301	4,070	1,846	15,189
Total	*284,365*	*128,987*	*1,348,028*	*303,829*	*137,816*	*1,518,130*
Oceania	60	27	435	35	16	276
Africa	514	233	644	357	162	484
Grand total	*582,471*	*264,207*	*2,457,500*	*648,322*	*294,077*	*2,953,589*

Note:--Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.
Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1996 AND 1997

Type of product	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	318,000	144,244	1,393,216	343,642	155,875	1,626,734
Peeled:						
Canned	3,563	1,616	9,032	3,620	1,642	10,954
Not breaded:						
Raw	206,670	93,745	763,008	235,550	106,845	952,130
Other	53,766	24,388	289,809	65,060	29,511	361,538
Breaded	472	214	2,435	450	204	2,233
Total	***582,471***	***264,207***	***2,457,500***	***648,322***	***294,077***	***2,953,589***

Source:--U.S. Department of Commerce, Bureau of the Census.

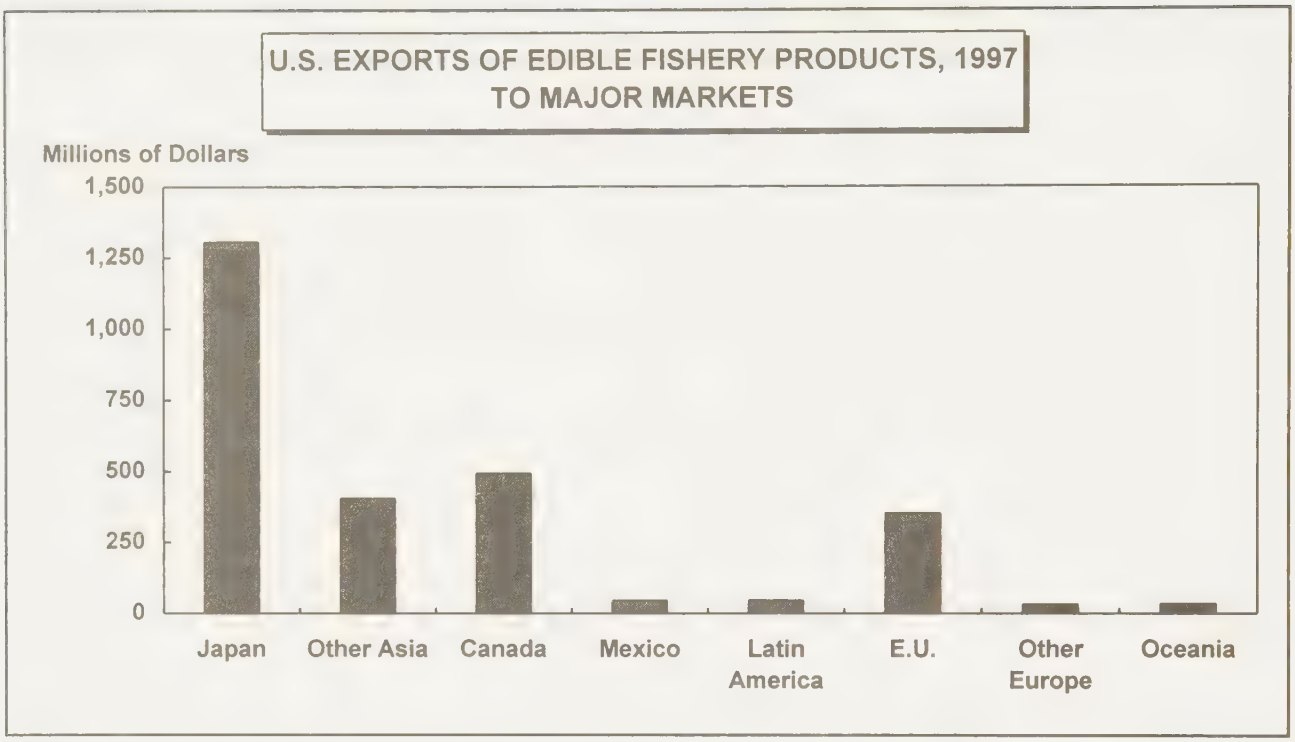
FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1996 AND 1997

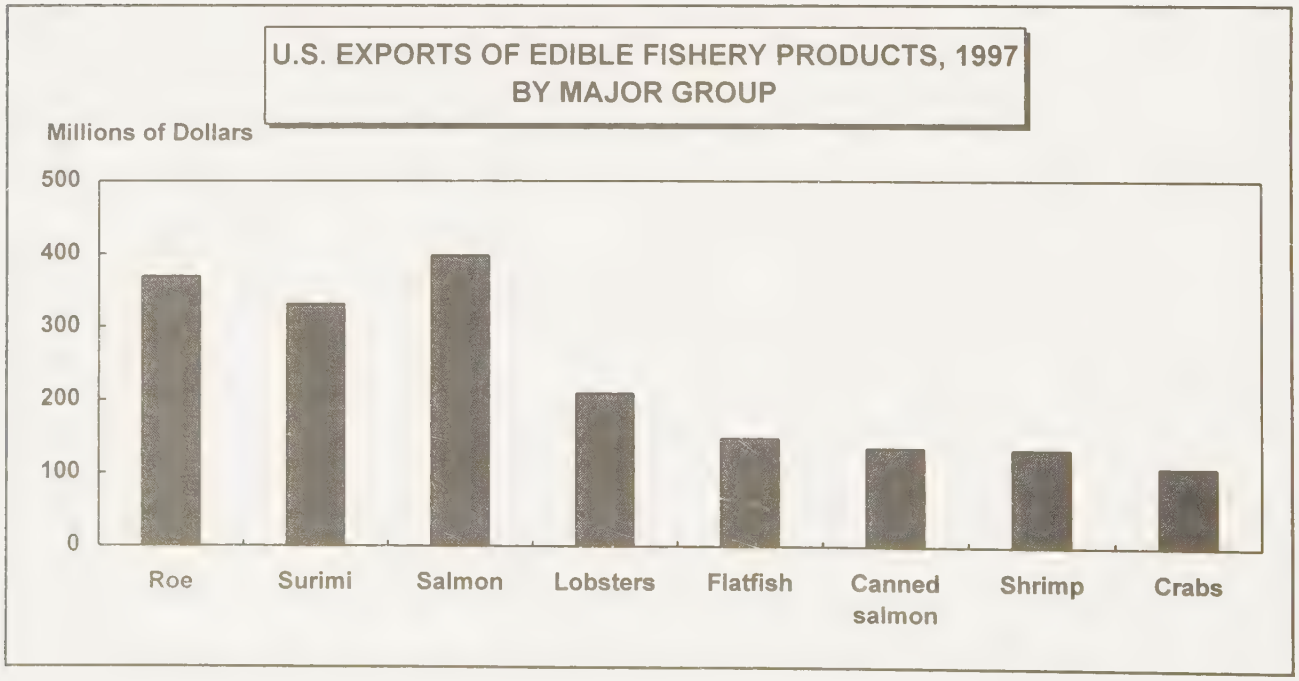
Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Peru	16,883	7,658	3,633	47,862	21,710	11,017
Mexico	38,197	17,326	8,968	32,968	14,954	7,858
Canada	13,419	6,087	4,281	16,788	7,615	5,671
Iceland	11,243	5,100	3,302	17,485	7,931	5,229
Panama	11,155	5,060	1,965	20,046	9,093	3,923
Chile	30,554	13,859	7,076	6,276	2,847	1,602
Japan	73	33	84	106	48	671
France	24	11	20	165	75	120
Ukraine	152	69	102	141	64	94
Other	13,860	6,287	4,550	212	96	299
Total	***135,561***	***61,490***	***33,981***	***142,049***	***64,433***	***36,484***

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS





EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1996 AND 1997 (1)

Item	1996			1997		
Edible fishery products:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fresh and frozen:						
Whole or eviscerated:						
Freshwater	4,749	2,154	6,742	7,972	3,616	8,330
Flatfish	179,161	81,267	140,753	238,637	108,245	148,158
Groundfish	139,840	63,431	112,375	129,915	58,929	97,640
Herring	79,866	36,227	53,131	87,633	39,750	48,245
Sablefish	37,716	17,108	93,756	28,770	13,050	64,314
Salmon	276,973	125,634	469,812	189,942	86,157	307,521
Tuna	31,382	14,235	38,278	24,092	10,928	34,527
Other	299,058	135,652	245,564	264,612	120,027	226,043
Fillets, and steaks:						
Freshwater	710	322	2,206	379	172	747
Groundfish	41,691	18,911	44,399	23,367	10,599	25,820
Other	31,967	14,500	52,887	31,268	14,183	47,608
Blocks and slabs	64,229	29,134	60,481	64,101	29,076	61,786
Surimi	284,702	129,140	269,754	310,242	140,725	330,976
Fish sticks	21,729	9,856	29,555	25,009	11,344	31,508
Clams	2,661	1,207	4,594	1,803	818	3,867
Crabs	46,742	21,202	162,403	43,133	19,565	108,661
Crabmeat	3,106	1,409	6,094	3,399	1,542	7,818
Lobsters	41,398	18,778	195,261	47,249	21,432	208,646
Scallops (meats)	6,191	2,808	22,318	9,861	4,473	37,116
Sea urchins	5,622	2,550	12,998	7,321	3,321	19,177
Shrimp	38,638	17,526	145,064	34,813	15,791	133,442
Squid	137,042	62,162	69,419	169,509	76,889	91,996
Other fish and shellfish	28,342	10,702	56,654	34,081	11,843	60,784
Total, fresh and frozen	***1,798,766***	***815,915***	***2,294,498***	***1,769,136***	***802,475***	***2,104,730***
Canned:						
Salmon	95,530	43,332	154,093	81,621	37,023	135,437
Sardines	12,207	5,537	9,623	9,321	4,228	8,115
Tuna	9,866	4,475	14,937	9,967	4,521	15,649
Abalone	805	365	5,427	392	178	7,884
Crabmeat	337	153	1,358	608	276	1,332
Shrimp	2,665	1,209	11,581	1,470	667	7,029
Squid	7,608	3,451	4,404	5,725	2,597	3,504
Other fish and shellfish	26,389	11,970	22,393	20,386	9,247	23,761
Total, canned	***155,407***	***70,492***	***223,816***	***129,492***	***58,737***	***202,711***
Cured:						
Dried	9,431	4,278	19,653	3,221	1,461	10,347
Pickled or salted	12,665	5,745	19,090	6,691	3,035	8,048
Smoked or kippered	1,096	497	3,150	679	308	2,503
Total, cured	***23,192***	***10,520***	***41,893***	***10,591***	***4,804***	***20,898***
Caviar and roe:						
Herring	34,806	15,788	51,638	18,483	8,384	19,763
Pollock	29,284	13,283	154,633	37,209	16,878	162,422
Salmon	27,952	12,679	97,775	17,491	7,934	63,487
Sea urchin	7,167	3,251	107,384	6,049	2,744	87,090
Other	11,680	5,298	39,467	10,725	4,865	36,361
Total, caviar and roe	***110,889***	***50,299***	***450,897***	***89,959***	***40,805***	***369,123***
Prepared meals	1,975	896	2,848	1,852	840	2,591
Other fish and shellfish	21,826	9,900	18,330	17,859	8,101	13,029
Total edible fishery products	***2,112,055***	***958,022***	***3,032,282***	***2,018,889***	***915,762***	***2,713,082***
Nonedible fishery products:						
Meal and scrap	186,412	84,556	52,931	216,289	98,108	57,197
Fish oils	187,294	84,956	36,423	215,255	97,639	53,716
Other	-	-	5,568,238	-	-	6,583,336
Total nonedible fishery products	-	-	***5,621,169***	-	-	***6,640,533***
Grand total	-	-	***8,653,451***	-	-	***9,353,615***

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

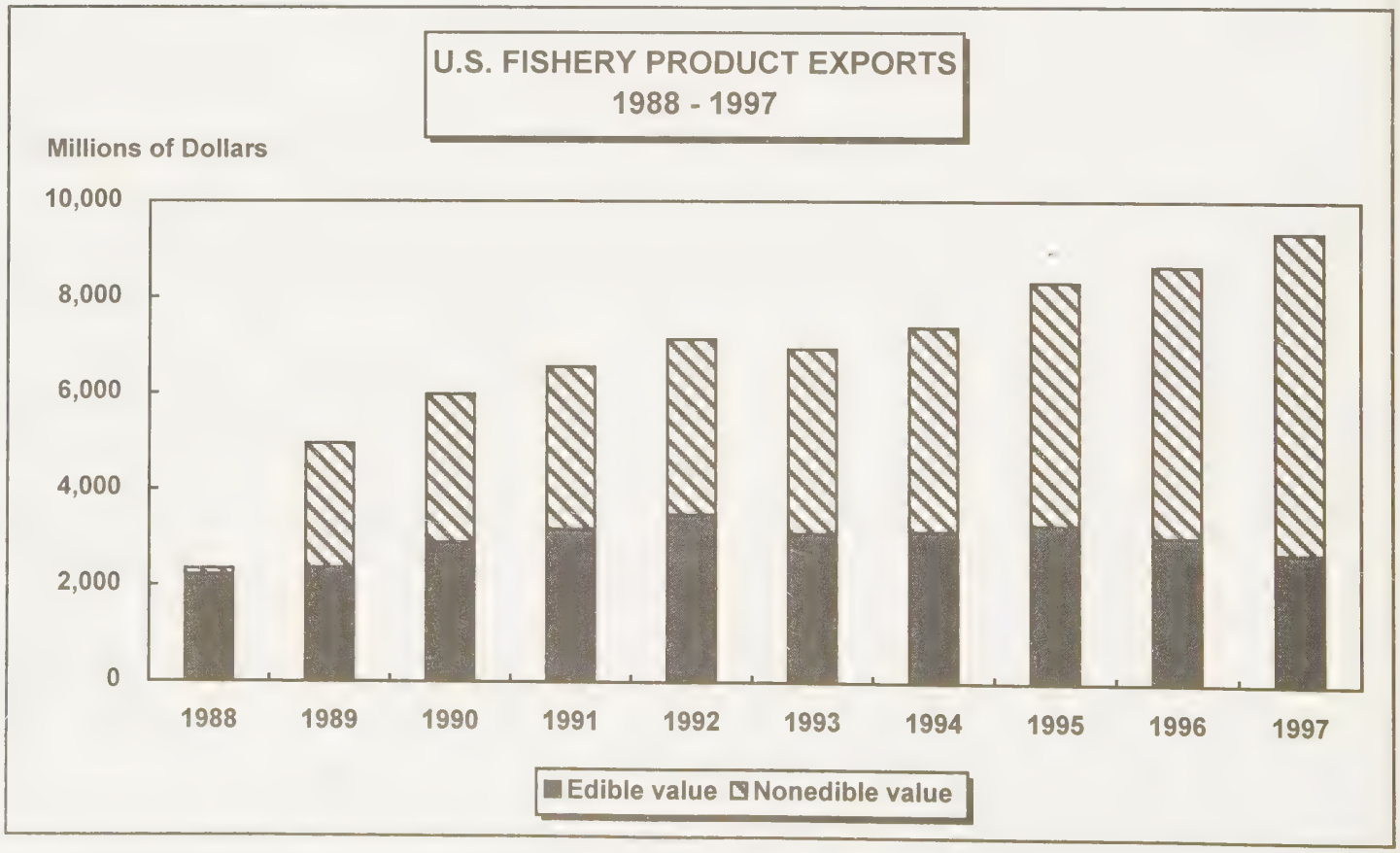
FISHERY PRODUCTS EXPORTS, 1988-97 (1)

Year	Edible			Nonedible	Total
	Thousand pounds	Metric tons	- - - -Thousand dollars- - - -		
1988	1,085,935	492,577	2,213,326	125,061	2,338,387
1989	1,405,977	637,747	2,355,603	2,582,538	4,938,141
1990	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,533	9,353,615

(1) Figures reflect both domestic and foreign (re-exports).

NOTE:--The increase in the nonedible value beginning in 1989 is due to re-examination of commodities that are considered to be based on fishery products including fish, shellfish, aquatic plants and animals and any products thereof, including processed and manufactured products.

Source:--U.S. Department of Commerce, Bureau of the Census.



EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1997 (1)

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars		
North America:					
Canada	278,216	126,198	492,650	1,343,513	1,836,163
Mexico	26,197	11,883	45,271	441,049	486,320
Panama	2,262	1,026	2,641	63,687	66,328
Dominican Republic	5,214	2,365	6,001	55,023	61,024
Netherlands Antilles	1,567	711	2,320	55,913	58,233
Other	14,755	6,693	23,323	209,399	232,722
Total	***328,212***	***148,876***	***572,206***	***2,168,584***	***2,740,790***
South America:					
Brazil	1,700	771	4,575	174,743	179,318
Argentina	860	390	823	72,323	73,146
Venezuela	2,498	1,133	1,410	66,133	67,543
Colombia	1,806	819	1,887	56,725	58,612
Chile	196	89	445	57,050	57,495
Other	2,873	1,303	2,568	86,480	89,048
Total	***9,932***	***4,505***	***11,708***	***513,454***	***525,162***
Europe:					
European Union:					
United Kingdom	48,933	22,196	86,250	257,875	344,125
Netherlands	17,471	7,925	22,936	197,435	220,371
France	58,012	26,314	82,596	129,958	212,554
Germany	14,597	6,621	22,242	147,191	169,433
Italy	22,291	10,111	37,453	121,231	158,684
Other	91,121	41,332	100,770	312,205	412,975
Total	***252,424***	***114,499***	***352,247***	***1,165,895***	***1,518,142***
Other:					
Switzerland	1,060	481	2,773	567,743	570,516
Russian Federation	5,243	2,378	8,124	18,844	26,968
Norway	14,295	6,484	13,276	13,639	26,915
Poland	1,627	738	653	9,477	10,130
Turkey	686	311	586	7,488	8,074
Other	8,944	4,057	5,515	33,481	38,996
Total	***31,854***	***14,449***	***30,927***	***650,672***	***681,599***
Asia:					
Japan	879,181	398,794	1,304,639	610,477	1,915,116
Hong Kong	21,107	9,574	48,710	356,023	404,733
South Korea	134,547	61,030	125,190	180,333	305,523
Taiwan	20,818	9,443	61,305	142,356	203,661
Singapore	3,602	1,634	9,804	177,926	187,730
Other	286,360	129,892	159,562	448,886	608,448
Total	***1,345,615***	***610,367***	***1,709,210***	***1,916,001***	***3,625,211***
Oceania:					
Australia	42,606	19,326	28,537	137,618	166,155
New Zealand	2,297	1,042	2,655	23,479	26,134
French Polynesia	897	407	1,096	1,334	2,430
New Caledonia	42	19	49	903	952
Fiji	877	398	484	294	778
Other	939	426	895	1,414	2,309
Total	***47,659***	***21,618***	***33,716***	***165,042***	***198,758***
Africa:					
South Africa	1,936	878	2,025	40,205	42,230
Egypt	888	403	689	6,880	7,569
Nigeria	-	-	-	3,305	3,305
Zimbabwe	-	-	-	2,823	2,823
Mauritius	-	-	-	1,516	1,516
Other	368	167	354	6,156	6,510
Total	***3,192***	***1,448***	***3,068***	***60,885***	***63,953***
Grand total	***2,018,889***	***915,762***	***2,713,082***	***6,640,533***	***9,353,615***

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	19,015	8,625	74,828	17,381	7,884	71,724
Mexico	7,211	3,271	24,123	8,023	3,639	24,772
Japan	2,284	1,036	11,286	1,620	735	9,366
China	1,975	896	5,071	1,495	678	4,119
Honduras	904	410	3,869	935	424	3,558
Brazil	340	154	752	988	448	3,261
Thailand	1,687	765	6,086	809	367	2,958
Norway	820	372	3,567	628	285	2,684
South Korea	500	227	2,027	267	121	1,258
Other	3,902	1,770	13,455	2,668	1,210	9,742
Total	*38,638*	*17,526*	*145,064*	*34,813*	*15,791*	*133,442*

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	963	437	4,739	423	192	2,462
Belgium	132	60	818	247	112	1,460
Thailand	437	198	2,281	229	104	1,271
Indonesia	57	26	348	163	74	577
Ecuador	207	94	1,315	75	34	403
China	71	32	197	49	22	218
Taiwan	-	-	-	24	11	206
Greece	538	244	427	220	100	175
South Korea	84	38	520	13	6	74
Other	176	80	936	26	12	183
Total	*2,665*	*1,209*	*11,581*	*1,470*	*667*	*7,029*

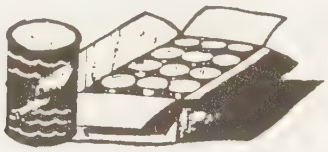
(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	176,441	80,033	344,756	113,477	51,473	208,038
Canada	55,565	25,204	73,794	35,289	16,007	52,136
France	11,180	5,071	11,068	11,058	5,016	12,750
Belgium	4,559	2,068	5,288	3,662	1,661	4,383
Denmark	5,337	2,421	5,973	3,366	1,527	3,566
Spain	2,293	1,040	1,866	3,186	1,445	3,231
Taiwan	2,901	1,316	5,333	1,382	627	3,230
Germany	2,057	933	2,337	2,899	1,315	2,849
China	2,156	978	3,182	2,533	1,149	2,513
Other	14,484	6,570	16,215	13,089	5,937	14,825
Total	***276,973***	***125,634***	***469,812***	***189,942***	***86,157***	***307,521***

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.



CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom	40,809	18,511	73,252	35,075	15,910	67,228
Canada	29,297	13,289	42,845	20,763	9,418	29,277
Australia	12,225	5,545	18,103	11,565	5,246	18,415
Netherlands	6,329	2,871	10,148	6,479	2,939	10,192
New Zealand	672	305	881	1,664	755	2,140
Belgium	1,270	576	1,826	1,612	731	2,108
France	611	277	1,085	831	377	1,139
Japan	522	237	761	589	267	910
Ireland	650	295	966	388	176	668
Other	3,144	1,426	4,226	2,654	1,204	3,360
Total	***95,530***	***43,332***	***154,093***	***81,621***	***37,023***	***135,437***

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	35,044	15,896	137,529	28,955	13,134	82,230
Canada	8,702	3,947	15,535	10,571	4,795	17,712
Thailand	216	98	951	897	407	2,658
China	1,962	890	5,849	1,349	612	2,228
Taiwan	117	53	167	421	191	722
Hong Kong	51	23	284	163	74	418
Mexico	79	36	244	123	56	401
United Kingdom	104	47	528	55	25	332
Belgium	7	3	65	49	22	313
Other	461	209	1,251	549	249	1,647
Total	*46,742*	*21,202*	*162,403*	*43,133*	*19,565*	*108,661*

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	853	387	2,636	1,497	679	3,813
Russian Federation	547	248	499	875	397	1,206
China	97	44	130	183	83	598
Hong Kong	236	107	245	159	72	459
Canada	126	57	397	150	68	443
Philippines	-	-	-	51	23	200
Switzerland	2	1	3	15	7	168
Mexico	26	12	86	86	39	149
South Korea	198	90	331	15	7	102
Other	1,021	463	1,767	368	167	680
Total	*3,106*	*1,409*	*6,094*	*3,399*	*1,542*	*7,818*

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands	99,416	45,095	16,248	116,249	52,730	26,420
Canada	55,904	25,358	13,013	46,806	21,231	13,244
Mexico	14,888	6,753	3,229	22,716	10,304	5,131
South Korea	8,719	3,955	1,905	10,452	4,741	2,688
China	1,003	455	631	5,099	2,313	2,068
Hong Kong	51	23	91	3,018	1,369	1,619
Japan	3,673	1,666	657	6,762	3,067	1,251
Spain	2,864	1,299	395	2,643	1,199	772
United Kingdom				185	84	108
Other	776	352	254	1,325	601	415
Total	*187,294*	*84,956*	*36,423*	*215,255*	*97,639*	*53,716*

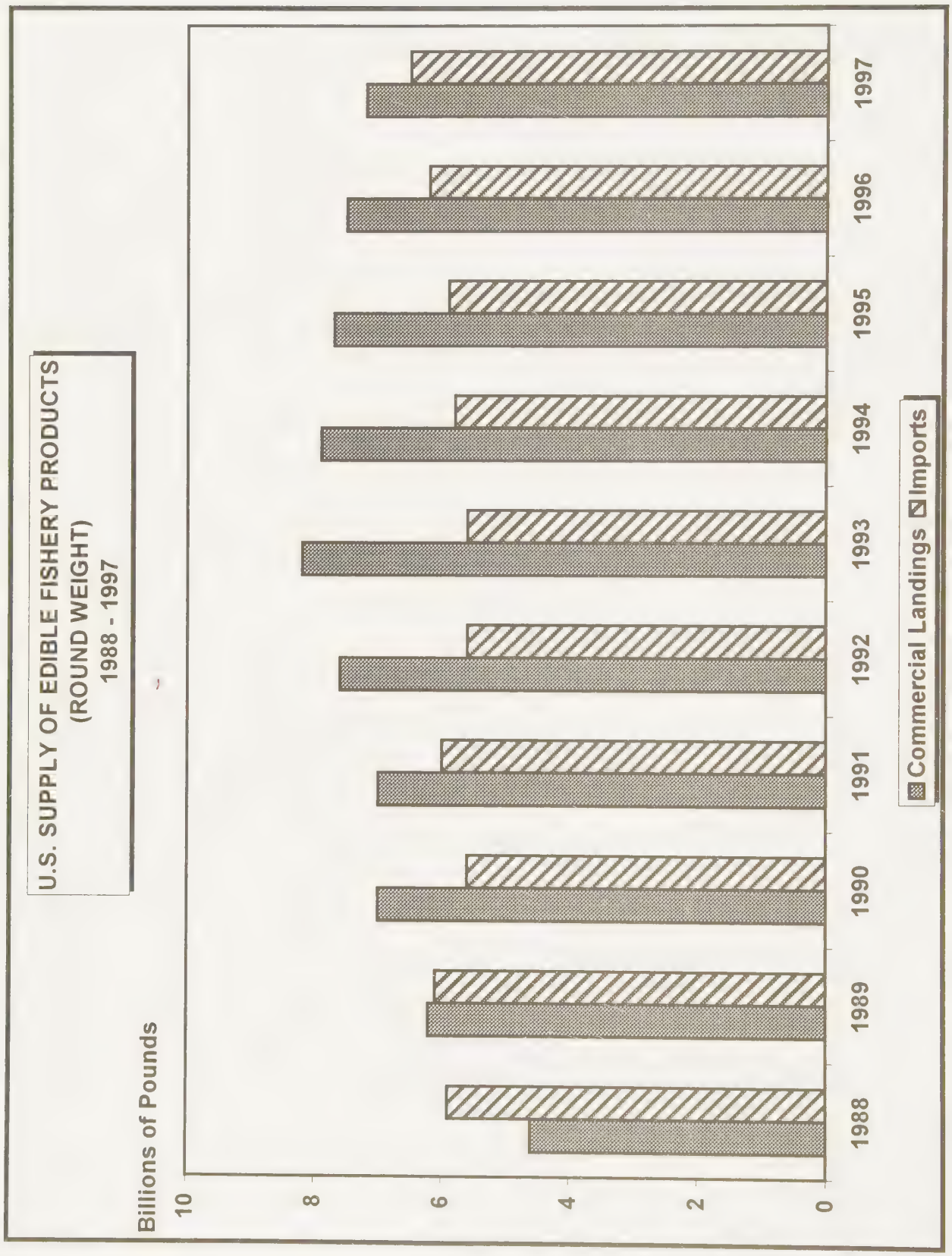
(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1996 AND 1997 (1)

Country	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
China	24,486	11,107	7,653	73,318	33,257	13,995
Taiwan	49,456	22,433	13,882	43,651	19,800	10,897
Canada	31,274	14,186	7,224	39,169	17,767	10,463
Japan	20,719	9,398	5,683	22,123	10,035	6,108
Hong Kong	6,261	2,840	1,688	10,373	4,705	2,421
Philippines	19,868	9,012	4,567	7,474	3,390	2,386
Thailand	1,164	528	2,651	494	224	2,190
Mexico	2,981	1,352	755	1,887	856	2,093
Saudi Arabia				5,615	2,547	1,721
Other	30,203	13,700	8,828	12,185	5,527	4,923
Total	*186,412*	*84,556*	*52,931*	*216,289*	*98,108*	*57,197*

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

SUPPLY OF FISHERY PRODUCTS



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1988-97
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1988	7,192	49.2	7,436	50.8	14,628
1989	8,463	54.7	7,022	45.3	15,485
1990	9,404	57.5	6,945	42.5	16,349
1991	9,484	58.0	6,879	42.0	16,363
1992	9,637	59.8	6,469	40.2	16,106
1993	10,467	51.5	9,867	48.5	20,334
1994	10,461	54.2	8,848	45.8	19,309
1995	9,788	59.4	6,696	40.6	16,484
1996	9,565	58.1	6,909	41.9	16,474
1997	9,846	57.5	7,286	42.5	17,132

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1988-97
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1988	4,588	43.7	5,917	56.3	10,505
1989	6,204	50.6	6,064	49.4	12,268
1990	7,041	55.6	5,621	44.4	12,662
1991	7,031	54.0	5,989	46.0	13,020
1992	7,618	57.5	5,624	42.5	13,242
1993	8,214	59.4	5,607	40.6	13,821
1994	7,936	57.9	5,778	42.1	13,714
1995	7,667	56.4	5,917	43.6	13,584
1996	7,474	54.9	6,150	45.1	13,624
1997	7,248	52.8	6,491	47.2	13,739

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1988-97
(Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1988	2,604	63.2	1,519	36.8	4,123
1989	2,259	70.2	958	29.8	3,217
1990	2,363	64.1	1,324	35.9	3,687
1991	2,453	73.4	890	26.6	3,343
1992	2,019	70.5	845	29.5	2,864
1993	2,253	34.6	4,260	65.4	6,513
1994	2,525	45.1	3,070	54.9	5,595
1995	2,121	73.1	779	26.9	2,900
1996	2,091	73.4	759	26.6	2,850
1997	2,898	78.5	795	21.5	3,693

(1) Preliminary.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1996 AND 1997

Item	Domestic commercial landings		Imports (1)		Total	
	1996	1997	1996	1997	1996	1997
	Million pounds--round weight					
Edible fishery products:						
Finfish	6,204	5,969	4,494	4,608	10,698	10,577
Shellfish	1,271	1,279	1,656	1,883	2,927	3,162
Total	*7,475*	*7,248*	*6,150*	*6,491*	*13,625*	*13,739*
Industrial fishery products:						
Finfish	2,069	2,428	759	795	2,828	3,223
Shellfish	21	169	(3)	(3)	21	169
Total	*2,090*	*2,597*	*759*	*795*	*2,849*	*3,392*
Total:						
Finfish	8,273	8,397	5,253	5,403	13,526	13,800
Shellfish	1,292	1,448	1,656	1,883	2,948	3,331
Total	*9,565*	*9,845*	*6,909*	*7,286*	*16,474*	*17,131*

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1996 AND 1997

Item	Domestic commercial landings		Imports (1)		Total	
	1996	1997	1996	1997	1996	1997
	Million dollars					
Edible fishery products:						
Finfish	1,667	1,570	2,974	3,288	4,641	4,858
Shellfish	1,688	1,733	3,756	4,458	5,444	6,191
Total	*3,355*	*3,303*	*6,730*	*7,746*	*10,085*	*11,049*
Industrial fishery products:						
Finfish	124	152	34	36	158	188
Shellfish	8	11	(3)	(3)	8	11
Total	*132*	*163*	*(2) 34*	*(2) 36*	*166*	*199*
Total:						
Finfish	1,791	1,722	3,008	3,324	4,799	5,046
Shellfish	1,696	1,744	3,756	4,458	5,452	6,202
Total	*3,487*	*3,466*	*6,764*	*7,782*	*10,251*	*11,248*

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
(2) Includes only quantity and value of fish meal.
(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1988-97
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	378,236	517,709	895,945	100,301	795,644
1989	371,082	517,620	888,702	68,931	819,771
1990	440,692	458,413	899,105	51,599	847,506
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	397,525	514,805	912,330	55,014	857,316

(1) Includes fillets used to produce blocks.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1988-97
(Edible weight)

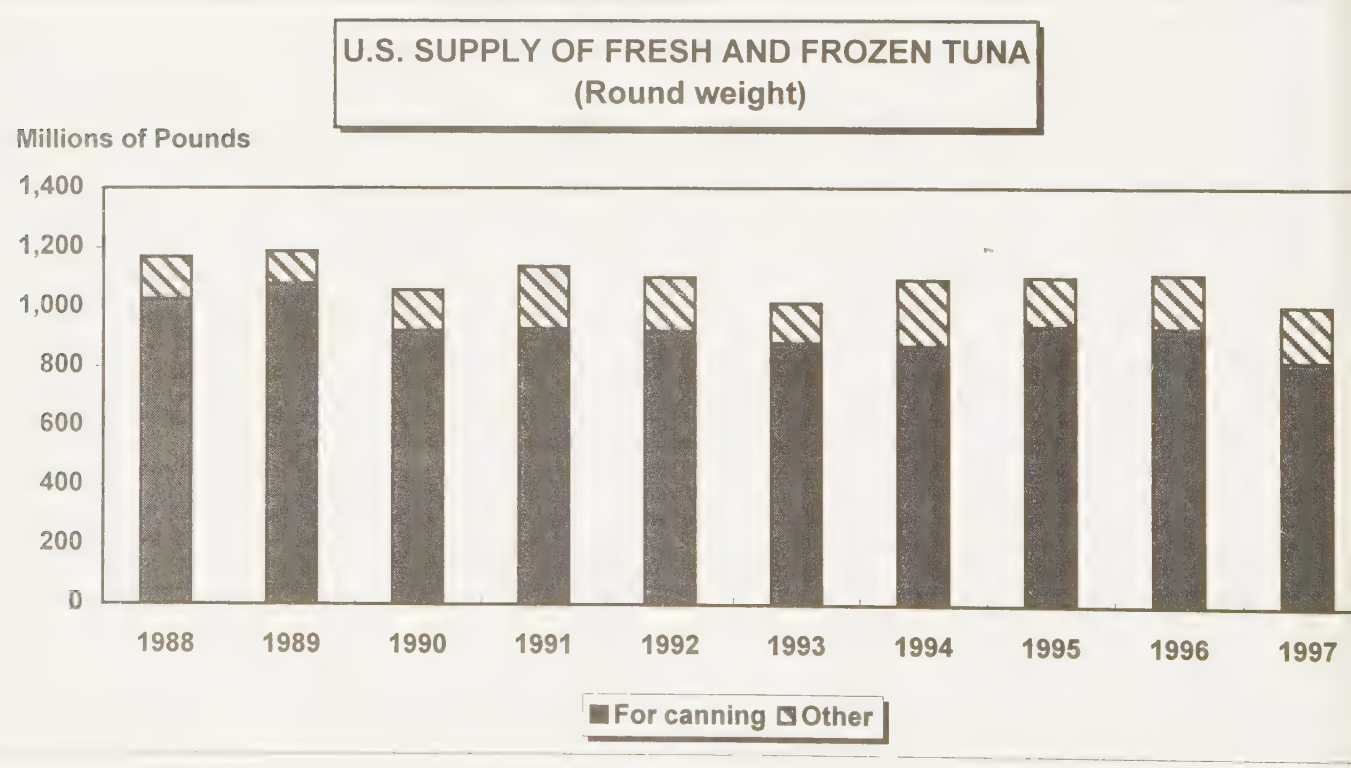
Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
	Thousand pounds				
1988	206,786	253,187	459,973	14,417	445,556
1989	211,498	265,001	476,499	9,652	466,847
1990	258,809	200,980	459,789	6,944	452,845
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	219,538	176,125	395,663	23,367	372,296

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch. (2) Species include: cod 1988-96; pollock 1991-96.

U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1988-97
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports	Tota
	For canning	Other	Total	For canning	Other	Total	Total	supp
	Thousand pounds							
1988...	486,640	122,935	609,575	538,588	18,900	557,488	(3)	1,167,
1989...	452,278	87,823	540,101	625,738	38,564	664,302	17,478	1,186,
1990...	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,
1991...	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,
1992...	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,
1993...	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,
1994...	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,
1995...	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,
1996...	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,
1997...	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.
(2) Includes landings in American Samoa of foreign caught fish.
(3) Not reported.



U.S. SUPPLY OF CANNED SARDINES, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	18,611	53,359	71,970	8,717	63,253
1989	13,221	56,379	69,600	9,070	60,530
1990	13,240	56,963	70,203	9,048	61,155
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426

U.S. SUPPLY OF CANNED SALMON, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	88,419	3,528	91,947	32,993	58,954
1989	197,044	2,943	199,987	40,497	159,490
1990	196,383	1,378	197,761	49,546	148,215
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713

U.S. SUPPLY OF CANNED TUNA, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	598,181	244,504	842,685	(1)	842,685
1989	686,267	348,212	1,034,479	6,495	1,027,984
1990	580,601	284,593	865,194	9,039	856,155
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236

(1) Not reported.

U.S. SUPPLY OF KING CRAB, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
	Thousand pounds				
1988	20,973	(2)	20,973	10,554	10,419
1989	26,391	5,150	31,541	(3) 13,196	18,345
1990	33,917	4,925	38,842	(3) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33 (2) Not reported. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1988	146,326	6,765	153,091	122,741	30,350
1989	164,643	3,927	168,570	(3) 111,028	57,542
1990	213,395	10,772	224,167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (belived to be mostly sections); meat, 4.50; and canned, 5. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

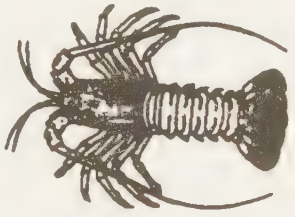
U.S. SUPPLY OF CANNED CRABMEAT, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	359	7,720	8,079	250	7,829
1989	504	8,280	8,784	930	7,854
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346

U.S. SUPPLY OF AMERICAN LOBSTERS,1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1988	48,643	72,638	121,281	(3)	121,281
1989	52,926	42,530	95,456	10,310	85,146
1990	61,017	49,592	110,609	15,274	95,335
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors. (3) Not reported.



U.S. SUPPLY OF SPINY LOBSTERS,1988-97
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1988	7,166	132,071	139,237	(3)	139,237
1989	8,125	87,793	95,918	6,373	89,545
1990	7,120	88,426	95,546	6,948	88,598
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails, 4.00, other; 4.50, canned. Foreign exports conver using import factors. (3) Not reported.

U.S. SUPPLY OF CLAMS, 1988-97
(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
	Thousand pounds				
1988	131,740	14,872	146,612	1,458	145,154
1989	138,166	13,254	151,420	1,863	149,557
1990	139,198	15,830	155,028	2,961	152,067
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713

(1) For specific breakout see table on page 1.
(2) Imports and exports were converted to meat weight by using these conversion factors:0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1988-97
(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
	Thousand pounds				
1988	31,892	46,414	78,306	(2)	78,306
1989	29,250	37,662	66,912	1,090	65,822
1990	29,193	27,546	56,739	1,004	55,735
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1988-97
(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	42,994	32,039	75,033	1,369	73,664
1989	40,611	40,874	81,485	2,498	78,987
1990	41,591	39,839	81,430	7,099	74,331
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759

(1) For specific breakout see table on page 1.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1988-97
(Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
	Thousand pounds				
1988	203,350	598,210	801,560	34,784	766,776
1989	215,825	563,523	779,348	36,056	743,292
1990	213,899	579,427	793,326	59,683	733,643
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.

(2) Imports were converted to heads-off weight by using these conversion factors:breaded,0.63 shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.

(3) Exports were converted to heads-off weight by using these conversion factors:domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52;and other, 2.40.

U.S. SUPPLY OF CANNED SHRIMP, 1988-97
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	4,476	14,138	18,614	2,187	16,427
1989	2,623	11,315	13,938	2,128	11,810
1990	710	9,735	10,445	2,670	7,775
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1988-97
(Product weight)

Year	U.S. production (1)	Imports (2)	Total	Exports	Total supply
	Thousand pounds				
1988	755,520	265,310	1,020,830	153,946	866,884
1989	734,736	171,112	905,848	107,350	798,498
1990	670,328	239,426	909,754	141,888	767,866
1991	697,520	158,916	856,436	206,320	650,116
1992	691,016	150,911	841,927	258,511	583,416
1993	814,196	760,664	1,574,860	212,859	1,362,001
1994	880,852	548,288	1,429,140	159,937	1,269,203
1995	711,996	139,101	851,097	176,981	674,116
1996	684,121	135,561	819,682	186,412	633,270
1997	796,669	142,049	938,718	216,289	722,429

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do n include imports of fish solubles.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

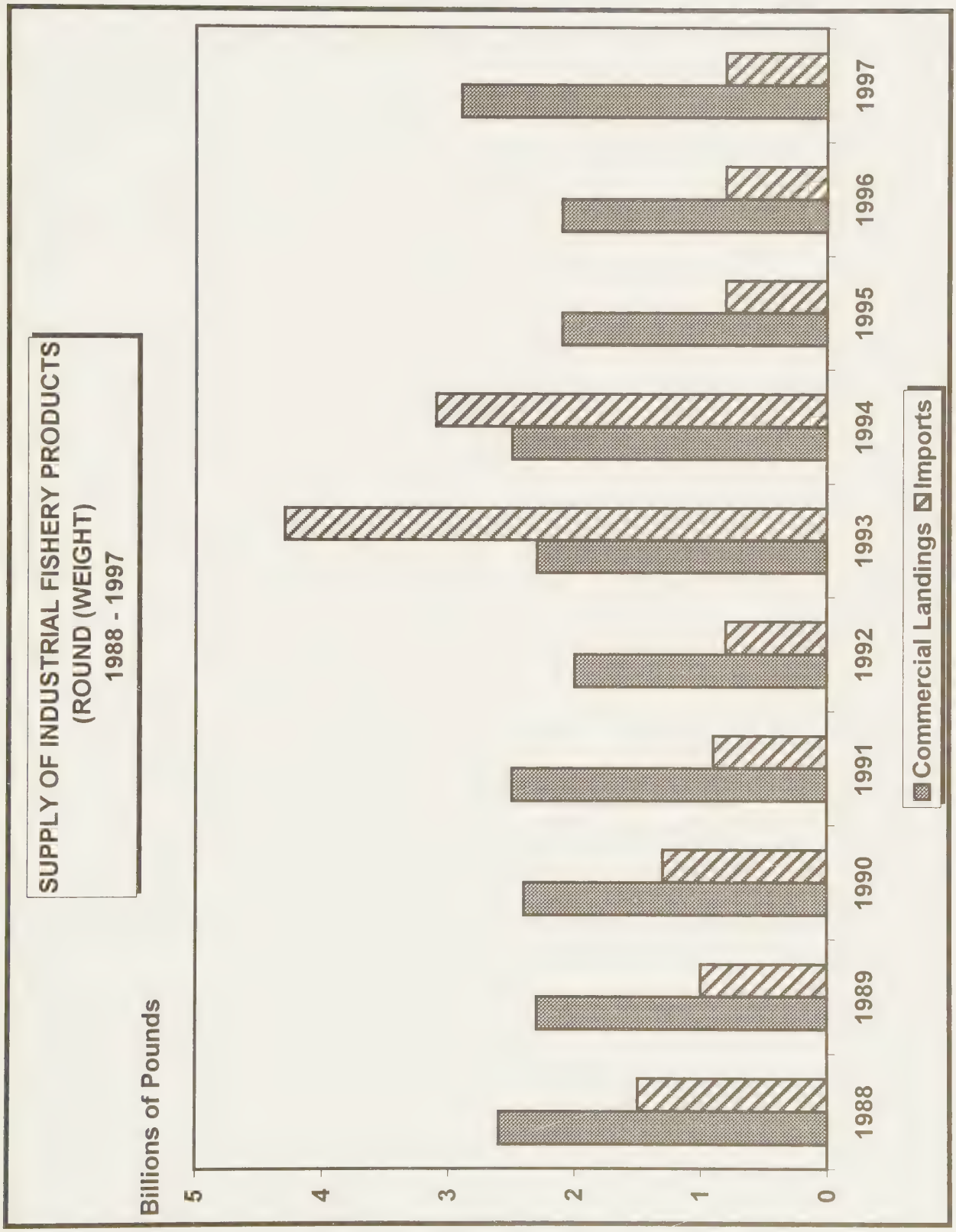
U.S. SUPPLY OF FISH MEAL, 1988-97
(Product weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	643,796	265,310	909,106	153,946	755,160
1989	618,382	171,112	789,494	107,350	682,144
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428

(1) Includes shellfish meal.

U.S. SUPPLY OF FISH OILS, 1988-97

Year	U.S. production	Imports	Total	Exports	Total supply
	Thousand pounds				
1988	224,733	27,667	252,400	150,002	102,398
1989	225,478	25,449	250,927	198,009	52,918
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746


SUPPLY OF INDUSTRIAL FISHERY PRODUCTS
(ROUND (WEIGHT)
1988 - 1997
Billions of Pounds
5
4
3
2
1
0
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
Commercial Landings
Imports

PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-97

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - - -Pounds, edible meat- - - - - - - -			
1909 (5).....	90.5	4.3	2.7	*4.0	11.0
1910.....	92.2	4.5	2.8	3.9	11.2
1911.....	93.9	4.8	2.8	3.7	11.3
1912.....	95.3	5.0	2.9	3.4	11.3
1913.....	97.2	5.3	2.9	3.3	11.5
1914.....	99.1	5.6	3 0	3.1	8.7
1915.....	100.5	5.8	2.4	3.0	11.2
1916.....	102.0	6.0	2.2	2.8	11.0
1917.....	103.3	6.2	2.0	2.7	10.9
1918.....	103.2	6.4	2.0	2.5	10.9
1919.....	104.5	6.4	2.8	2.4	11.6
1920.....	106.5	6.3	3.2	2.3	11.8
1921.....	108.5	6.2	2.2	2.1	10.5
1922.....	110.0	6.1	3.2	2.0	11.3
1923.....	111.9	6.0	2.9	1.8	10.7
1924.....	114.1	6.1	3.2	1.7	11.0
1925.....	115.8	6.3	3.2	1.6	11.1
1926.....	117.4	6.6	3.4	1.4	11.4
1927.....	119.0	7.0	3.9	1.3	12.2
1928.....	120.5	7.1	3.9	1.1	12.1
1929.....	121.8	6.9	3.9	1.1	11.9
1930.....	122.9	5.8	3.4	1.0	10.2
1931.....	123.9	4.9	3.2	0.7	8.8
1932.....	124.7	4.3	3.4	0.7	8.4
1933.....	125.4	4.2	3.9	0.6	8.7
1934.....	126.2	4.3	4.2	0.7	9.2
1935.....	127.1	5.1	4.7	0.7	10.5
1936.....	127.9	5.2	*5.8	0.7	11.7
1937.....	128.6	5.6	5.3	0.9	11.8
1938.....	129.6	5.2	4.8	0.8	10.8
1939.....	130.7	5.3	4.7	0.7	10.7
1940.....	132.1	5.7	4.6	0.7	11.0
1941.....	132.1	6.3	4.2	0.7	11.2
1942.....	131.4	5.2	2.9	0.6	8.7
1943.....	128.0	5.5	1.8	0.6	7.9
1944.....	127.2	5.5	2.6	0.6	8.7
1945.....	128.1	6.6	2.6	0.7	9.9
1946.....	138.9	5.9	4.2	0.7	10.8
1947.....	143.1	5.8	3.8	0.7	10.3
1948.....	145.7	6.0	4.4	0.7	11.1
1949.....	148.2	5.8	4.5	0.6	10.9
1950.....	150.8	6.3	4.9	0.6	11.8
1951.....	151.6	6.3	4.3	0.6	11.2
1952.....	153.9	6.2	4.3	0.7	11.2
1953.....	156.6	6.4	4.3	0.7	11.4
1954.....	159.7	6.2	4.3	0.7	11.2
1955.....	163.0	5.9	3.9	0.7	10.5
1956.....	166.1	5.7	4.0	0.7	10.4
1957.....	169.1	5.5	4.0	0.7	10.2
1958.....	172.2	5.7	4.3	0.6	10.6
1959.....	175.3	5.9	4.4	0.6	10.9

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-97 - Continued

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	- - - - - - - - Pounds, edible meat - - - - - - - -			
1960	178.1	5.7	4.0	0.6	10.3
1961	181.1	5.9	4.3	0.5	10.7
1962	183.7	5.8	4.3	0.5	10.6
1963	186.5	5.8	4.4	0.5	10.7
1964	189.1	5.9	4.1	0.5	10.5
1965	191.6	6.0	4.3	0.5	10.8
1966	193.4	6.1	4.3	0.5	10.9
1967	195.3	5.8	4.3	0.5	10.6
1968	197.1	6.2	4.3	0.5	11.0
1969	199.1	6.6	4.2	0.4	11.2
1970	201.9	6.9	4.5	0.4	11.8
1971	204.9	6.7	4.3	0.5	11.5
1972	207.5	7.1	4.9	0.5	12.5
1973	209.6	7.4	5.0	0.4	12.8
1974	211.6	6.9	4.7	0.5	12.1
1975	213.8	7.5	4.3	0.4	12.2
1976	215.9	8.2	4.2	0.5	12.9
1977	218.1	7.7	4.6	0.4	12.7
1978	220.5	8.1	5.0	0.3	13.4
1979	223.0	7.8	4.8	0.4	13.0
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	*10.7	5.2	0.3	*16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish. Domestic landings used in calculating consumption are preliminary after 1977.

(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimate based on the 1908 census and foreign trade data.

*Record.

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1977-97

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1977	0.5	0.3	2.8	0.6	0.4	4.6
1978	0.6	0.3	3.3	0.5	0.3	5.0
1979	0.5	0.3	3.2	0.5	0.3	4.8
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4

NOTE:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1977-97

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all preparation
	Pounds (2)		
1977	2.5	2.0	1.6
1978	2.7	2.2	1.5
1979	2.7	*2.2	1.3
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	*3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	*2.7

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp
*Record.

Note:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-97 (1)

Year	Total population including armed forces overseas July 1	U.S. supply			
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,131	36.7	27.2	63.9

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industria fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1993-95 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	23.2	51.1
Greenland	82.0	180.8
St. Pierre and Miquelon	31.2	68.8
United States	21.9	48.3
Caribbean:		
Antigua	28.2	62.2
Aruba	9.1	20.1
Bahamas	23.7	52.2
Barbados	27.1	59.7
Bermuda	38.8	85.5
Cayman Islands	31.4	69.2
Cuba	11.4	25.1
Dominica	27.0	59.5
Dominican Republic	7.2	15.9
Grenada	40.1	88.4
Guadeloupe	41.5	91.5
Haiti	2.3	5.1
Jamaica	16.1	35.5
Martinique	48.4	106.7
Netherland Antilles	21.4	47.2
Saint Lucia	21.4	47.2
St. Vincent	16.6	36.6
Trinidad-Tobago	8.3	18.3
Turks & Caicos	35.8	78.9
Latin America:		
Argentina	10.1	22.3
Belize	6.8	15.0
Bolivia	1.5	3.3
Brazil	6.4	14.1
Chile	28.4	62.6
Colombia	3.9	8.6
Costa Rica	6.0	13.2
Ecuador	7.2	15.9
El Salvador	2.3	5.1
French Guiana	33.7	74.3
Guatemala	1.1	2.4
Guyana	42.1	92.8
Honduras	1.5	3.3
Mexico	11.0	24.3
Nicaragua	1.4	3.1
Panama	16.4	36.2
Paraguay	3.8	8.4
Peru	23.8	52.5
Suriname	19.2	42.3
Uruguay	8.2	18.1
Venezuela	17.6	38.8
Europe:		
Albania	0.9	2.0
Armenia	1.3	2.9
Austria	10.4	22.9
Azerbaijan	2.2	4.9
Belarus	1.1	2.4
Belgium and Luxembourg	19.2	42.3
Bosnia-Hercegovina	1.2	2.6

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Europe - Continued:		
Bulgaria	2.8	6.2
Croatia	2.5	5.5
Czech Republic	4.8	10.6
Denmark	20.0	44.1
Estonia	33.9	74.7
Faeroe Island	86.4	190.5
Finland	33.0	72.8
France	27.1	59.7
Georgia	2.1	4.6
Germany	12.7	28.0
Greece	25.0	55.1
Hungary	4.0	8.8
Iceland	91.2	201.1
Ireland	19.2	42.3
Italy	21.6	47.6
Kazakhstan	2.7	6.0
Kyrgyzstan	0.1	0.2
Latvia	36.6	80.7
Lithuania	20.1	44.3
Macedonia	2.9	6.4
Malta	22.1	48.7
Moldova	2.6	5.7
Netherlands	14.0	30.9
Norway	47.5	104.7
Poland	14.2	31.3
Portugal	58.8	129.6
Romania	1.8	4.0
Russian Federation	14.6	32.2
Slovakia	6.6	14.6
Slovenia	5.7	12.6
Spain	42.7	94.1
Sweden	28.5	62.8
Switzerland	13.1	28.9
Tajikistan	0.3	0.7
Turkmenistan	3.6	7.9
Ukraine	4.4	9.7
United Kingdom	19.1	42.1
Uzbekistan	0.8	1.8
Yugoslavia	0.7	1.5
Near East:		
Afghanistan	0.1	0.2
Bahrain	16.8	37.0
Cyprus	18.2	40.1
Egypt	7.3	16.1
Iran	5.2	11.5
Iraq	0.9	2.0
Israel	19.8	43.7
Jordan	3.7	8.2
Kuwait	11.4	25.1
Lebanon	4.1	9.0
Libya	6.6	14.6
Oman	22.1	48.7
Qatar	18.4	40.6
Saudi Arabia	6.0	13.2
Sudan	1.7	3.7
Syria	0.8	1.8
Turkey	8.4	18.5
United Arab Emirates	24.5	54.0
Yemen Republic	6.1	13.4

See note at end of table. (Continued on next page)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1993-95 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Far East:		
Bangladesh	9.1	20.1
Brunei	26.5	58.4
Burma	15.9	35.1
Cambodia	8.5	18.7
China	19.1	42.1
Hong Kong	56.8	125.2
India	4.4	9.7
Indonesia	17.1	37.7
Japan	69.9	154.1
Laos	6.6	14.6
Macao	38.1	84.0
Maldives	139.8	308.2
Malaysia	54.5	60.6
Mongolia	0.7	1.5
Nepal	0.8	1.8
North Korea	46.0	101.4
Pakistan	2.1	4.6
Philippines	33.8	74.5
Singapore	31.8	70.1
South Korea	50.7	111.8
Sri Lanka	18.9	41.7
Taiwan	38.2	84.2
Thailand	25.9	57.1
Vietnam	13.4	29.5
Africa:		
Algeria	4.2	9.3
Angola	8.6	19.0
Benin	10.6	23.4
Botswana	5.6	12.3
Burkina	1.3	2.9
Burundi	3.7	8.2
Cameroon	8.9	19.6
Cape Verde	17.4	38.4
Central African Rep	4.4	9.7
Chad	6.3	13.9
Comoros	22.7	50.0
Congo (Brazzaville)	25.9	57.1
Congo (Kinshasa)	6.7	14.8
Djibouti	1.8	4.0
Equatorial Guinea	22.8	50.3
Eritrea	0.8	1.8
Ethiopia	0.1	0.2
Gabon	37.0	81.6
Gambia	17.9	39.5
Ghana	21.1	46.5
Guinea	9.9	21.8
Guinea-Bissau	5.0	11.0
Africa - Continued:		
Ivory Coast	12.2	26.9
Kenya	5.9	13.0
Lesotho	2.7	6.0
Liberia	4.5	9.9
Madagascar	6.5	14.3
Malawi	6.3	13.9
Mali	8.4	18.5
Mauritania	17.4	38.4
Mauritius	27.1	59.7
Morocco	8.1	17.9
Mozambique	1.9	4.2
Namibia	11.2	24.7
Niger	0.5	1.1
Nigeria	5.8	12.8
Reunion	27.3	60.2
Rwanda	0.7	1.5
Sao Tome	23.6	52.0
Senegal	27.8	61.3
Seychelles	59.2	130.5
Sierra Leone	14.9	32.8
Somalia	1.3	2.9
South Africa	6.8	15.0
St. Helena	69.7	153.7
Swaziland	0.2	0.4
Tanzania	10.7	23.6
Togo	12.0	26.5
Tunisia	9.0	19.8
Uganda	10.2	22.5
Zambia	9.0	19.8
Zimbabwe	3.2	7.1
Oceania:		
Australia	19.2	42.3
Cook Island	61.6	135.8
Fiji	33.4	73.6
French Polynesia	37.6	82.9
Kiribati	73.3	161.6
New Caledonia	19.9	43.9
New Zealand	22.2	48.9
Papua New Guinea	13.2	29.1
Solomon Islands	33.5	73.9
Tonga	25.8	56.9
Vanuatu	24.8	54.7
Western Samoa	45.7	100.8
World	14.5	32.0

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

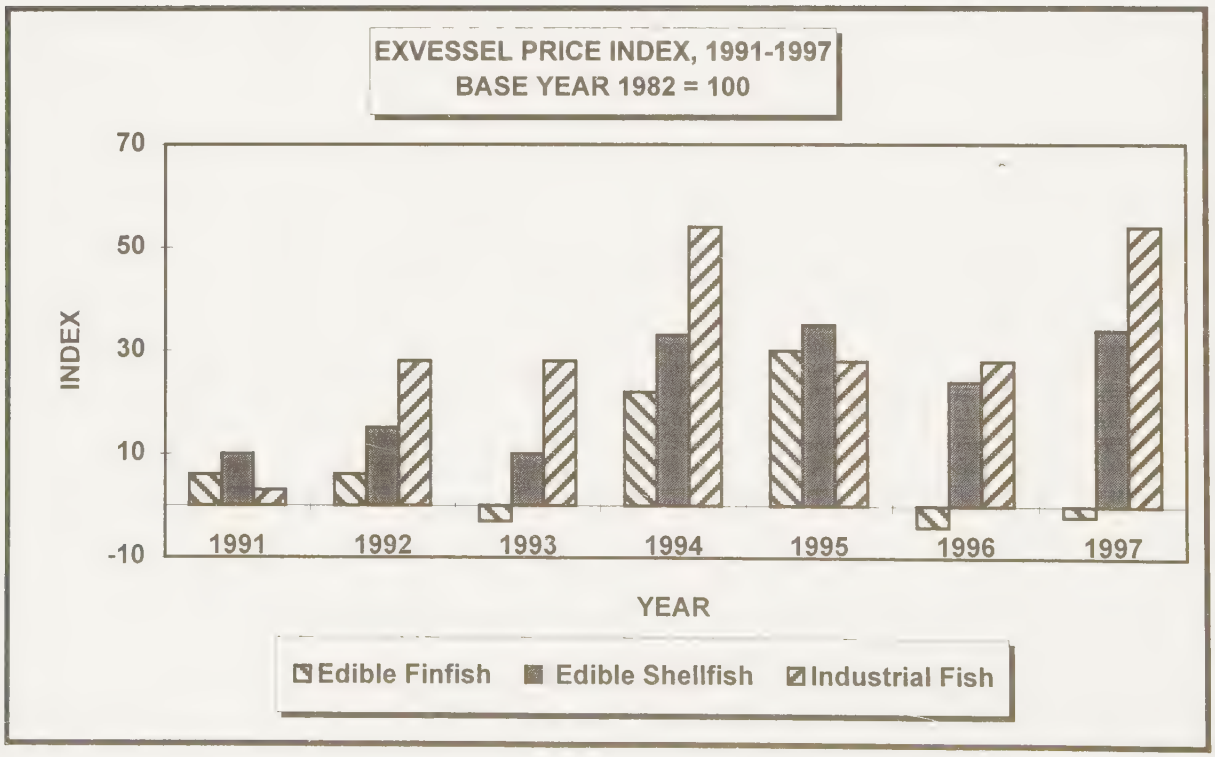
Source:--Food and Agriculture Organization of the United Nations (FAO)

The Exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 thru 4. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price X 1982 quantity})}{\text{1982 Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for $0.75 a pound in 1986 and a $1.00 a pound in 1982 would have an index of 75 in 1986. In 1997, if the price of the same species increased to $1.07, the index in 1997 would be 107.



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1991-97
(1982=100)

Species	1991 (1)	1992 (1)	1993	1994	1995	1996	1997
Groundfish, et al:							
Cod	106	105	105	92	77	76	84
Haddock	227	219	277	287	277	239	218
Pollock:							
Atlantic	255	297	299	365	412	311	255
Alaska	149	194	194	212	161	160	170
Flounders	97	60	61	80	96	91	63
Total groundfish, et al	***122***	***108***	***115***	***125***	***125***	***115***	***100***
Halibut	175	91	115	171	173	199	195
Sea herring	86	86	63	86	126	137	69
Salmon:							
Chinook	101	112	81	76	76	63	70
Chum	73	112	95	58	66	36	49
Pink	57	69	59	73	67	38	52
Sockeye	88	136	80	101	100	94	103
Coho	72	84	74	76	54	48	70
Total salmon	***82***	***113***	***78***	***85***	***82***	***69***	***81***
Swordfish	102	111	92	107	104	103	91
Tuna:							
Albacore	114	147	132	125	120	130	124
Bluefin	1,158	477	766	666	954	229	353
Skipjack	83	72	85	127	83	82	93
Yellowfin	116	96	112	205	283	113	126
Total tuna	***126***	***97***	***117***	***181***	***212***	***105***	***118***
Total edible finfish	***106***	***106***	***97***	***122***	***130***	***96***	***98***
Clams:							
Hard	142	135	113	105	113	148	163
Ocean quahog	124	124	128	129	136	142	145
Soft	192	222	233	248	250	205	236
Surf	84	83	88	118	118	115	116
Total clams	***132***	***133***	***126***	***133***	***138***	***147***	***159***
Crabs:							
Blue	131	183	201	260	284	266	286
Dungeness	159	124	95	145	176	143	210
King	99	139	127	146	104	100	94
Snow	53	60	78	144	237	130	76
Total crabs	***99***	***124***	***123***	***166***	***182***	***144***	***138***
American lobster	113	125	117	128	141	147	138
Oysters	219	225	183	175	179	214	199
Scallops:							
Bay	157	150	161	49	55	69	111
Calico	(2)	(2)	(2)	94	124	-	217
Sea	110	132	159	138	138	153	179
Total scallops	***135***	***118***	***141***	***126***	***131***	***129***	***178***
Shrimp:							
Gulf and South Atlantic	87	86	80	110	99	88	106
Other	130	113	128	142	179	148	134
Total shrimp	***89***	***88***	***82***	***111***	***103***	***91***	***107***
Total edible shellfish	***110***	***115***	***110***	***138***	***135***	***124***	***134***
Total edible fish and shellfish	***108***	***111***	***104***	***131***	***133***	***111***	***117***
Industrial fish,							
Menhaden	103	128	128	154	128	128	154
All fish and shellfish	***108***	***112***	***105***	***132***	***132***	***112***	***119***

(1) Revised.

(2) Confidential data.

VALUE ADDED

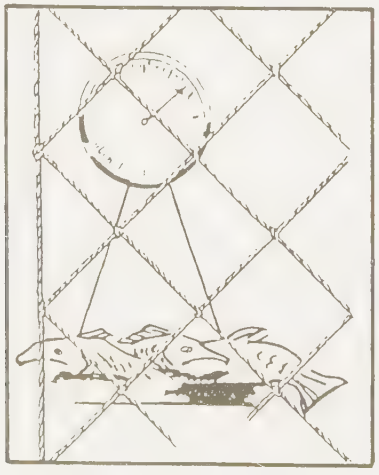
The value added table reflects changes in the value of fishery products from year to year, using measures such as mark-up, value added as a percent of mark-up, and sales of fishery products in each sector (1). Using a model developed for Fisheries of the U.S. in 1987, the value added table is updated every year to reflect changes in the annual quantity and value of landings, processed products, and imports and exports of several species. These annual updates allow partial re-estimation of the mark-ups, value added, and sales of each sector.

Complete re-estimation of the annual mark-ups and value added requires secondary information such as average revenues and costs of operation for businesses involved in the processing, wholesaling or retailing of fishery products. The revenue and cost data needed to estimate mark-ups in each sector are only published once every five years. In addition, there is a two-year lag between the collection and publication of these data. Thus, the margins estimated in the value added tables from 1992 through 1996 are based on 1990 financial data that became available in 1992.

The 1997 value added table incorporates newly available 1995 financial data, as well as 1997 fisheries data, to re-estimate the mark-up of fishery products at each market level. Therefore, the estimated 1997 mark-ups and value added in each sector reflect the annual change in fisheries activity as well as changes in the economy as a whole since 1990.

To differentiate between the effects of changes in the economy from changes in fishing activity, the 1997 model was estimated using both the old 1990 and the new 1995 financial data. Between 1996 and 1997, the estimated total U.S. value added activity increased 16%. Half of this increase is attributable to the updated financial data. Also between 1996 and 1997, estimated consumer expenditures increased by almost 13%; of this, less than 3% is due to the updated financial data. The table presented on the following page incorporates the updates from *both* the financial data as well as the new, 1997 fisheries data. The 1995 financial data will be used in the model until new data are available in 2002.

(1) See footnotes following the value added table for definitions of these terms.



SUMMARY OF 1997 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total	Value added within sector	Value of sales by sector	Value added contri-bution	Offshore fleet & exported fishery products
	Thousand dollars	Percentage of fishery inputs	Thousand dollars	Percentage	Thousand dollars	Thousand dollars	Percentage of GNP con-tribution	Thousand dollars
Domestic harvest:								
Edible	-	100.0	$3,298,566	62.8	$2,071,896	$3,298,566	8.5	-
Industrial	-	100.0	$112,050	60.2	$67,425	$112,050	0.3	-
Harvest not landed in U.S.	-	100.0	$220,382	67.6	$148,954	$220,382	0.6	$220,382
Imports, unprocessed	$3,483,430	-	-	-	-	$3,483,430	-	-
Exports, unprocessed	-	-	-	-	-	-	-	$905,186
Primary wholesale and processing	$5,988,860	88.5	$5,300,619	60.5	$3,205,700	$11,289,480	13.1	-
Imports, processed	$4,428,476	-	-	-	-	$4,428,476	-	-
Exports, processed	-	-	-	-	-	-	-	$1,867,991
Secondary wholesale and processing:								
Edible	$13,651,286	62.7	$8,560,735	28.0	$2,400,733	$22,212,021	9.8	-
Industrial	$198,678	62.7	$124,591	28.0	$34,940	$323,270	0.1	-
Retail trade from food service	$11,083,095	182.4	$20,216,242	69.8	$14,103,481	$31,299,338	57.7	-
Retail trade from stores	$11,128,925	33.4	$3,719,541	64.2	$2,389,118	$14,848,466	9.8	-
TOTAL U.S. VALUE ADDED ACTIVITY:					**$24,422,248**		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						***$46,471,074***		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire docksi or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the productio process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1995 - 1996

	1995			1996		
REGIONS	VESSELS	BOATS	TOTAL	VESSELS	BOATS	TOTAL
Northeast Fisheries:						
Connecticut	149	392	541	336	420	756
Delaware	32	555	587	23	512	535
Maine	1,798	5,439	7,237	1,773	5,454	7,227
Maryland (3)	33	-	33	33	NA	33
Massachusetts	805	4,490	5,295	790	4,525	5,315
New Hampshire	139	467	606	132	474	606
New Jersey	423	1,282	1,705	360	1,167	1,527
New York (4)	698	2,924	3,622	2,936	693	3,629
Rhode Island	291	2,863	3,154	299	2,538	2,837
Virginia (3)	122	2,138	2,260	122	NA	122
South Atlantic and Gulf Fisheries:						
North Carolina	1,034	9,361	10,395	814	NA	814
South Carolina	530	1,022	1,552	501	NA	501
Georgia	305	NA	305	349	NA	349
Florida	2,311	8,919	11,230	2,531	9,425	11,956
Alabama	378	720	1,098	378	720	1,098
Mississippi	438	874	1,312	438	874	1,312
Louisiana	2,805	12,969	15,774	2,839	11,883	14,722
Texas	1,902	1,969	3,871		NA	0
West Coast Fisheries:						
Washington	1,176	630	1,806	1,909	1,292	3,201
Oregon	927	378	1,305	860	389	1,249
Alaska	7,264	9,013	16,277	7,044	9,295	16,339
California	1,759	1,570	3,329	1,767	1,483	3,250
Hawaii	2,583	NA	2,583	2,636	NA	2,636
Great Lakes Fisheries: (5)						
Illinois	5	-	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	75	136	61	75	136
Minnesota	2	29	31	1	23	24
New York	3	16	19	3	17	20
Ohio	33	18	51	30	14	44
Pennsylvania	NA	NA	NA	1	2	3
Wisconsin	93	40	133	106	42	148

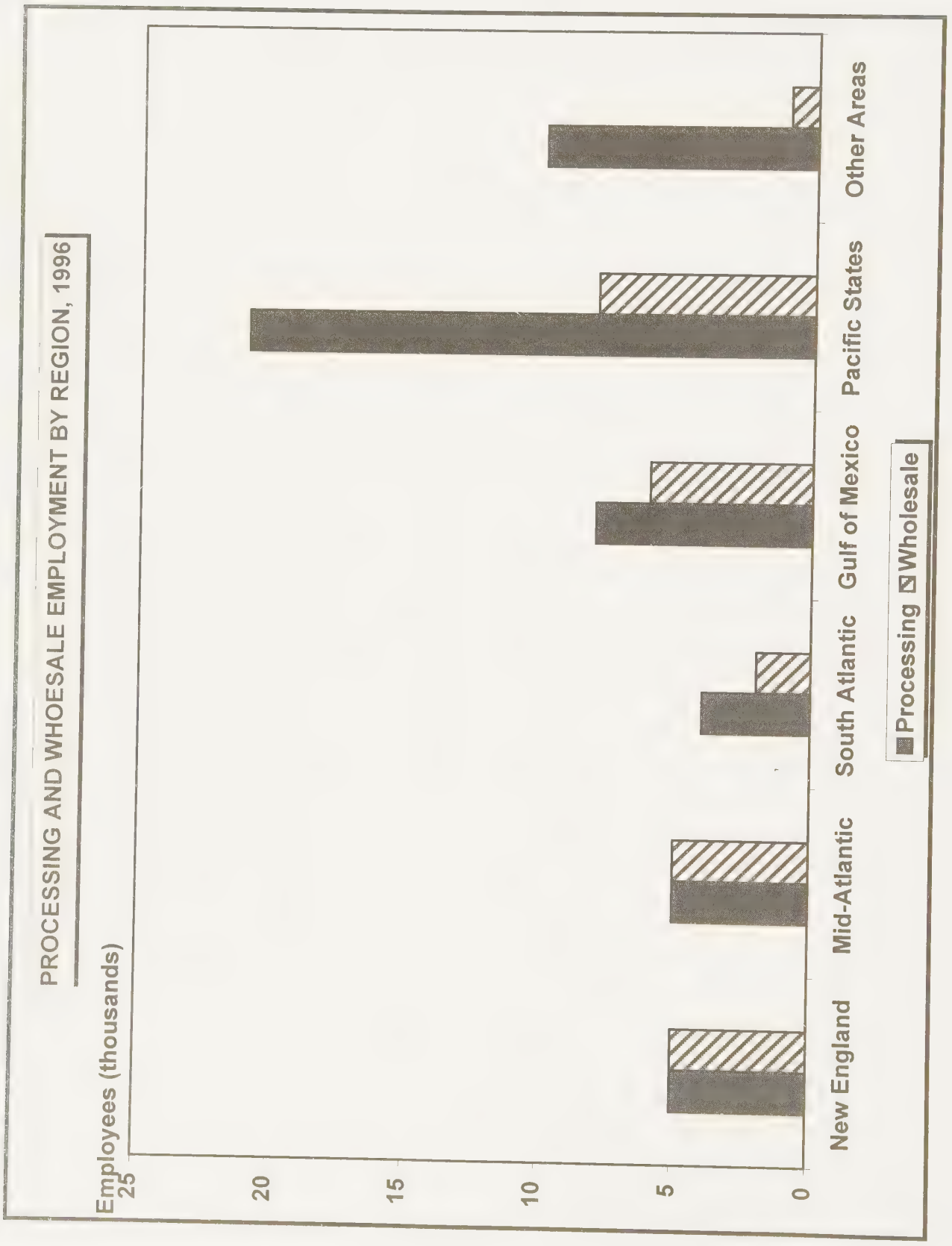
1 Vessels are documented craft greater than 5 net registered tons.
2 Boats are craft less than 5 net registered tons.
3 Only Federal collected data are available. Inshore data not available.
4 Includes vessels and boats in the Great Lakes.
5 Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the state; therefore, may not be an accurate total. Tribal data are not included in this table.

NA -- Data not available separately.

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1996

State and Area	Processing			Wholesale (1)			Total		
	Plants	Employment average		Plants	Employment average		Plants	Employment average	
		Season	Year		Season	Year		Season	Year
	Number								
New England:									
Maine	55	1,804	1,792	212	(2)	1,561	267	(3)	3,353
New Hampshire	9	280	280	28	(2)	175	37	(3)	455
Massachusetts	81	2,399	2,397	293	(2)	2,567	374	(3)	4,964
Rhode Island	20	455	455	62	(2)	338	82	(3)	793
Connecticut	5	62	62	39	(2)	277	44	(3)	339
Total	*170*	*5,000*	*4,986*	*634*	*(2)*	*4,918*	*804*	*(3)*	*9,904*
Mid-Atlantic:									
New York	12	232	232	327	(2)	2,390	339	(3)	2,622
New Jersey	16	1,223	1,219	134	(2)	871	150	(3)	2,090
Pennsylvania	5	1,240	1,240	63	(2)	777	68	(3)	2,017
Delaware	(4)	(4)	(4)	(4)	(2)	(4)	(4)	(3)	(4)
District of Columbia	-	-	-	7	(2)	73	7	(3)	73
Maryland	37	1,291	1,223	89	(2)	666	126	(3)	1,889
Virginia	47	1,523	1,482	82	(2)	633	129	(3)	2,115
Total	*117*	*5,509*	*5,396*	*702*	*(2)*	*5,410*	*819*	*(3)*	*10,806*
South Atlantic:									
North Carolina	47	1,202	1,165	98	(2)	899	145	(3)	2,064
South Carolina	11	165	158	26	(2)	179	37	(3)	337
Georgia	10	1,143	1,141	56	(2)	508	66	(3)	1,649
Florida, East Coast	31	1,082	1,082	(5)	(2)	(5)	31	(3)	1,082
Total	*99*	*3,592*	*3,546*	*180*	*(2)*	*1,586*	*279*	*(3)*	*5,132*
Gulf:									
Florida, West Coast	86	1,669	1,661	387	(2)	3,051	473	(3)	4,712
Alabama	87	1,549	1,461	57	(2)	964	144	(3)	2,425
Mississippi	31	940	937	33	(2)	205	64	(3)	1,142
Louisiana	146	3,527	3,135	165	(2)	1,145	311	(3)	4,280
Texas	25	1,312	1,302	111	(2)	1,082	136	(3)	2,384
Total	*375*	*8,997*	*8,496*	*753*	*(2)*	*6,447*	*1,128*	*(3)*	*14,943*
Pacific:									
Alaska	207	10,230	7,623	219	(2)	348	426	(3)	7,971
Washington	98	5,470	4,302	192	(2)	1,883	290	(3)	6,185
Oregon	41	1,731	1,723	24	(2)	401	65	(3)	2,124
California	145	7,746	7,339	412	(2)	5,132	557	(3)	12,471
Total	*491*	*25,177*	*20,987*	*847*	*(2)*	*7,764*	*1,338*	*(3)*	*28,751*
Inland States, Total	*35*	*1,390*	*1,389*	*301*	*(2)*	*3,043*	*336*	*(3)*	*4,432*
Other Areas or States: (6), Total	*29*	*10,561*	*10,560*	*55*	*(2)*	*592*	*84*	*(3)*	*11,152*
Grand Total	*1,316*	*60,226*	*59,360*	*3,472*	*(2)*	*29,760*	*4,788*	*(3)*	*85,120*

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.
(2) Not reported. (3) Can not be calculated. (4) Included with Inland States. (5) Included with Florida, West Coast
(6) Includes American Samoa, Hawaii, and Puerto Rico.


PROCESSING AND WHOESALE EMPLOYMENT BY REGION, 1996
Employees (thousands)
25
20
15
10
5
0
New England
Mid-Atlantic
South Atlantic
Gulf of Mexico
Pacific States
Other Areas
Processing
Wholesale

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1997

Region	Edible fishery products						
	Establishment (1)		Amount inspected				
	SIFE (2)	In-plant (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	-Average number-		----------Thousand pounds----------				
Northeast.....	0	118	28,253	156,451	80,160	96,451	361,315
Southeast.....	0	135	12,737	100,230	45,049	94,578	252,594
West.....	16	65	23,805	116,750	54,683	119,670	314,908
Total, 1997.	***16***	***318***	***64,795***	***373,431***	***179,891***	***310,699***	***928,816***
Total, 1996.	***16***	***319***	***72,271***	***680,041***	***185,615***	***343,340***	***1,201,268***

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection As of December 1996, 106 of these establishments were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Seafood Inspection Division, F/SF6.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct any harvesting or processing operations in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of the foreign fishing effort in the EEZ by 1991.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 25,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1997. However, no joint venture permits were issued in 1997 because no foreign nations elected to participate in joint venture fishing in 1997. NMFS continues to maintain certain regulations pertaining to foreign fishing, such as the foreign fishing fee schedule, should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1997, three Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

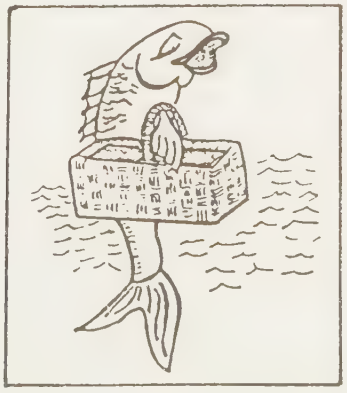
The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act and the Western Atlantic bluefin tuna fishery is managed under the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1997, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1997.

Northeast Multispecies (**)
American Lobster (**)
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish (**)
Atlantic Salmon
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea Bass (**)
Gulf and South Atlantic Spiny Lobster
Caribbean Reef Fish
Gulf of Mexico Reef Fish (**)
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp (**)
Gulf of Mexico Stone Crab
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper
South Atlantic Shrimp (**)
Northern Anchovy
King and Tanner Crab (**)
Commercial and Recreational Salmon (**)
High Seas Salmon
Pacific Coast Groundfish (**)
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans
Western Pacific Precious Corals
Western Pacific Bottomfish and Seamount Groundfish
Western Pacific Pelagics

In 1997, NMFS published 862 documents in the Federal Register which affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published include hearing, meeting, correction, and proposed and final rule documents.



REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone Number	Executive Director and Address
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	781-231-0422 FAX: 565-8937	Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	Daniel T. Furlong Federal Bldg., Rm. 211 300 South New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	803-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	813-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(Virginia Islands and the Commonwealth of Puerto Rico)	787-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Room 1405 Honolulu, HI 96813

NOTE:--Massachusetts, Pennsylvania, and Virginia are "Commonwealth States."

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1997 (1)

Item	Loligo squid	Illex squid	Atlantic mackerel	Butter-fish	Atlantic herring
	Metric tons, round weight				
Maximum OY	(2) 36,000	(2) 30,000	(3)	(2) 16,000	(4) 89,000
ABC	(5) 21,000	(5) 19,000	(5) 1,178,000	(5) 7,200	89,220
Initial OY	21,000	19,000	90,000	5,900	89,220
DAH	21,000	19,000	(6) 90,000	5,900	89,220
DAP	21,000	19,000	50,000	5,900	49,220
JVP	0	0	25,000	0	40,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

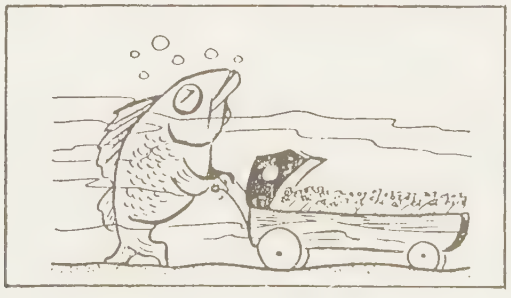
(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase to this amount.

(6) Contains 15,000 metric tons projected recreational catch.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.



GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

MAIL ROUTING CODE		TELEPHONE NUMBER
--	**Secretary of Commerce** William Daley	202-482-2112
A	**Under Secretary for Oceans and Atmospheric** D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	**Assistant Administrator for Fisheries --** Rolland A. Schmitten	301-713-2239
	Deputy Assistant Administrator for Fisheries -- Andrew A. Rosenberg	301-713-2239
Fx1	***Staff Office for Industry and Trade --*** Linda Chaves	301-713-2379
Fx2	***Staff Office for Intergovernmental and Recreational Fisheries --*** Richard Schaefer	301-427-2401
Fx3	***Equal Employment Opportunity --*** Natalie Huff	301-713-2252
Fx4	***Seafood Inspection Program --*** Samuel W. McKeen	301-713-2351
F/EN	***Office of Law Enforcement --*** David McKinney	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	***Office of Habitat Conservation --*** Joseph Blum	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174
F/OMI	***Office of Operations, Management & Information --*** Steven Pennoyer (Acting)	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372

(CONTINUED)

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

MAIL ROUTING CODE		TELEPHONE NUMBER
F/PR	***Office of Protected Resources --***	
	Hilda Diaz-Soltero	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	***Office of Sustainable Fisheries --***	
	Gary Matlock	301-713-2334
F/A2SF	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2376
F/SF5	Regulatory Services Division	301-713-2337
F/SF6	National Seafood Laboratory	601-769-8964
F/ST	***Office of Science and Technology --***	
	William Fox	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Science and Technology Division	301-713-2372
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	***Office of Congressional Affairs - Fisheries --***	
	Peter Hill	301-713-2263
PAF	***Office of Public Affairs - Fisheries --***	
	Scott Smullen / Gordon Helms	301-713-2370
GCF	***Office of General Counsel - Fisheries --***	
	Margaret Hayes	301-713-2231

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

MAIL ROUTING CODE		*TELEPHONE and FAX NUMBER*	*LOCATION*
F/NER	***Northeast Region*** ***One Blackburn Drive*** ***Gloucester, MA 01930***	***978-281-9300*** ***Fax-281-9371***	***Gloucester, MA***
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-548-5123 Fax-548-5124	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-5123 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory Milford, CT 06460	860-873-4200 FAX-873-4212	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
	Oxford Laboratory 904 S. Morris St. Oxford, MD 21654	410-226-5193 FAX-226-5925	Oxford, MD
F/NESC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-2986	Washington, DC
F/SER	***Southeast Region*** ***9721 Executive Center Drive, N.*** ***St. Petersburg, FL 33702***	***727-570-5301*** ***FAX-570-5300***	***St. Petersburg, FL***
F/SEFSC	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 120 Pascagula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

MAIL ROUTING CODE		TELEPHONE and FAX NUMBER	LOCATION
F/SEC8	Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412	803-762-8500 FAX-762-8700	Charleston, SC
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	***Northwest Region*** ***7600 Sand Point Way, N.E.*** ***BIN C15700, Bldg. 1*** ***Seattle, WA 98115***	***206-526-6150*** ***FAX-526-6426***	***Seattle, WA***
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	***Southwest Region*** ***501 West Ocean Blvd., Suite 4200*** ***Long Beach, CA 90802***	***562-980-4000*** ***FAX-980-4018***	***Long Beach, CA***
F/SWFSC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812	808-983-5300 FAX-943-1248	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149 FAX-435-3675	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Grou 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	***Alaska Region*** ***709 West 9th Street, Room 453*** ***P.O. Box 21668*** ***Juneau, AK 99802***	***907-586-7221*** ***FAX-586-7249***	***Juneau, AK***
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Investigations P.O. Box 1638 Kodiak, AK 99615	907-487-4961 FAX-487-5960	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
		NORTHEAST REGION
NEW ENGLAND		
Portland	207-780-3322 FAX:780-3340	Robert C. Morrill / Scott McNamara, Marine Trade Center, Suite 212, Two Portland Fish Pier Portland, ME 04101
Rockland	207-594-5969 FAX:596-7651	Peter P. Marckoon, Federal Bldg., 21 Limerock St., Rm. 217, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
	617-223-8012 FAX:223-8526	Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	**978-281-9304 FAX:281-9161**	**Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930**
Gloucester	978-281-9307 FAX:281-9372	Kelly McGrath / Don Mason, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main, U.S. Custom House, 37 N. Second St. New Bedford, MA 02740
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX:548-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115 FAX:842-0980	Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd floor P.O. Box 547, Narragansett, RI 02882
MIDDLE ATLANTIC		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangello, New York Market News 201 Varick Street, Rm. 731, New York, NY 10014
East Hampton	516-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O. Box 606, Patchoque, L.I., NY 11772
Toms River	732-349-3533 FAX:349-4319	Eugene Steady / Kathy Corbo, 26 Main St., P.O. Box 143, Toms River, NJ 08754
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
CHESAPEAKE		
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis, 1026 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
		SOUTHEAST REGION
SOUTH ATLANTIC		
(1)Beaufort	***252-728-8720 FAX:728-8772***	***Nelson Johnson, Beaufort Laboratory, 101 Piver Island Road, Beaufort, NC 28516***
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce P.O. Box 2025, New Smynra Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469
(1)Miami	**305-361-4468 FAX:361-4460**	**Guy S. Davenport / Pam Brown, 75 Virginia Beach Dr., Miami, FL 33149**
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040

(Continued)

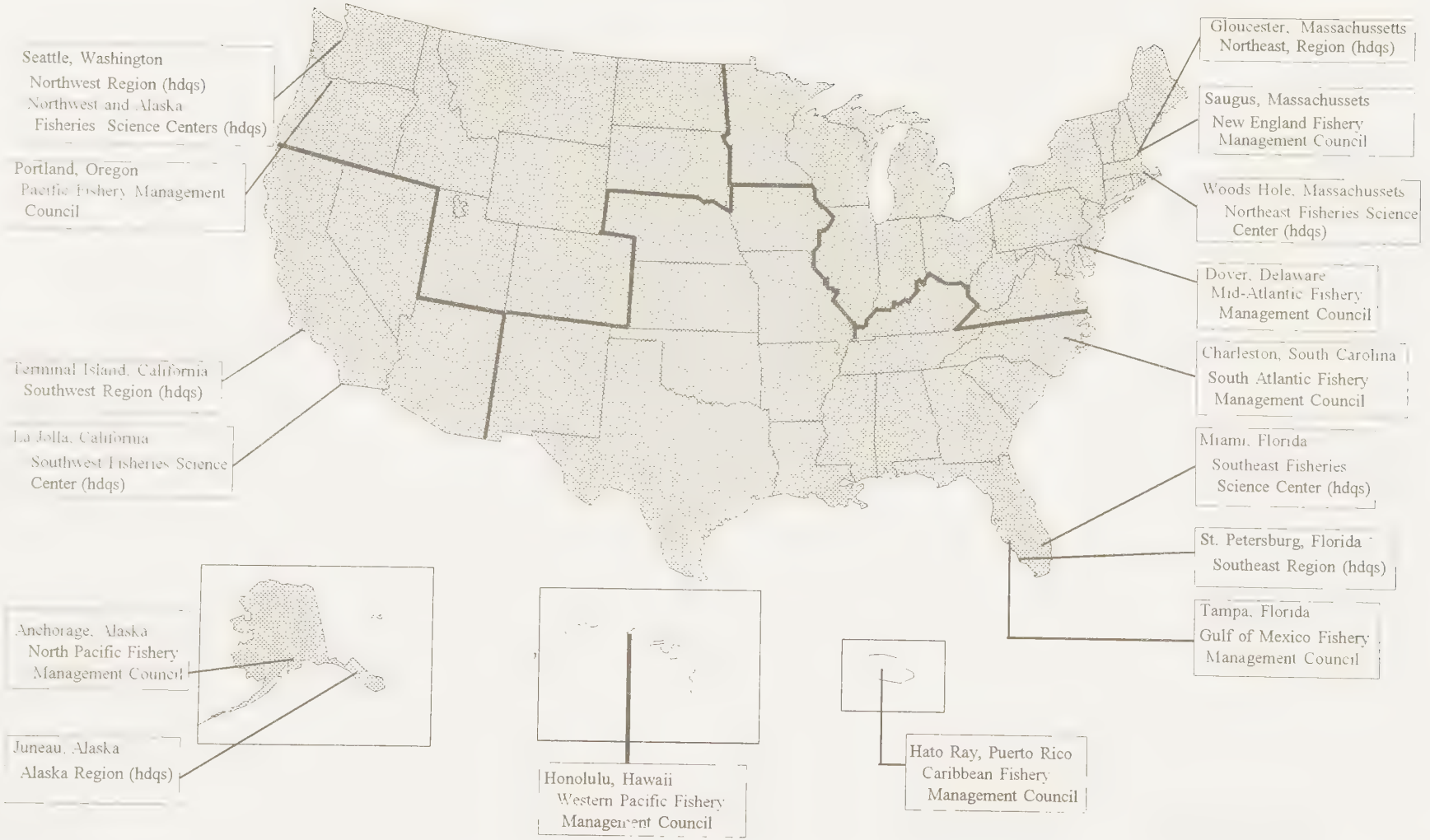
NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
GULF		
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	813-570-5393 FAX:570-5300	Renee Brown, 9721 Executive Center Drive, St. Petersburg, FL 33702
Panama City	850-234-6541 FAX:235-3558	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC P.O. Box 97, Mobile, AL 36608
Pascagoula	601-762-7402 FAX:769-9200	Rene Labadens, Jr., 3209 Frederic St., Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Chalmette	504-277-0365 FAX:271-9150	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suite 201, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345) P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-340-5820 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia	318-365-1558 FAX: SAME	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 FAX: SAME	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	512-758-1043 FAX: SAME	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	210-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownville, TX 78521
Freeport	409-233-4551 FAX: SAME	Thomas R. Mauermann, Texas Gulf Bank, Suite 213 P.O. Box 2533, Freeport, TX 77542
(1) Galveston	**409-766-3705 FAX:766-3543**	**Margot Hightower or W. Keith Roberts 4700 Avenue U, Bldg. 306, Galveston, TX 77551**
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640
		SOUTHWEST REGION
(1) Long Beach, CA or Honolulu, HI	**562-980-4033 FAX:980-4047**	**Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832**
		NORTHWEST REGION
(1) Seattle	**206-526-6119 FAX:526-4461**	**John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1 BIN C15700, Seattle, WA 98115**
		ALASKA REGION
(1) Juneau	**907-586-7323 FAX:586-7465**	**David Ham, Federal Building, 4th Floor, 709 West 9th Street, P.O. Box 21668 Juneau, AK 99802**

(1) Regional or area headquarters for statistics offices.

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NMFS Regional Offices
NMFS Fisheries Science Centers
Regional Fishery Management Councils
Headquarters Locations



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003-020-00167-0 Fisheries of the United States, 1996 . . . .$14.00

003-020-00169-6 Fisheries of the United States, 1997 . . .NA

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SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997 and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space ( ) and return to the Office indicated above. The following are available annually:

( ) FF - Frozen Fishery Products (Annual)
( ) FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 142) or the originating office (code follows in parentheses). Copies are available only as long as supply lasts.

( ) A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)

( ) Endangered Species Act, Biennial Report, Status of Recovery Program, FY 1989-1991. (F/PR)

( ) Fishery Management Plan for Sharks of the Atlantic Ocean. (F/SF)

( ) Habitat Protection Activity Report. 1991 - 1993. (F/PR)

( ) Magnuson Fishery Conservation and Management Act, As Amended through November 28, 1990. (F/SF)

( ) Marine Mammal Protection Act, Annual Report. 1988-1989. (F/PR)

( ) Marine Mammal Protection Act, Annual Report. 1990-1991. (F/PR)

( ) Our Living Oceans - The First Annual Report on the Status of U.S. Living Marine Resources. (F/ST)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1992 Data. (F/ST)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1993 Data. (F/ST)

( ) Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

( ) Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1994. (F/SF)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/IS)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)

( ) USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (National Seafood Inspection Laboratory, Pascagoula, MS.)

Aquaculture and Capture Fisheries: Impacts in U.S. Seafood Markets. (NTIS No. PB-88-204185/GBA)

Developments of Value Added, Margin and Expenditures for Marine Fishery Products. (NTIS No. PB-89-125108)

Marine Mammal Strandings in the United States: Proceedings of the Second Marine Mammal Stranding Workshop, 1987. 1991. Reynolds, John E., III and Daniel K. Odell, (editors). (NOAA-TR-NMFS-98). 157 p. (F/PR)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for the Humpback (*Megaptera novaeangliae).* Prepared by the Humpback Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 105 p. (F/PR)

Recovery Plan for the Kemp's Ridley Sea Turtle (*Lepidochelys kempii*). Prepared by the Kemp's Ridley Recovery Team for the U.S. Fish and Wildlife Service and NMFS, 1992. Washington, DC. (F/PR)

Recovery Plan for Leatherback Turtles in the U.S. Caribbean, Atlantic, and Gulf of Mexico. National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1992. Washington, D.C. (F/PR)

Recovery Plan for the Northern Right Whale (*Eubalaena glacialis).* Prepared by the Right Whale Recovery Team for the National Marine Fisheries Service, 1991. 1992. Silver Spring, Maryland. 86 p. (F/PR)

Recovery Plan for U.S. Population of Atlantic Green Turtle. National Marine Fisheries Service, and Fish and Wildlife Service. 1991. Washington, D.C. (F/PR)

Recovery Plan for U.S. Population of Loggerhead Turtle (*Caretta caretta).* Prepared by the Loggerhead/Green Turtle Recovery Team for the U.S. Fish and Wildlife Service and NMFS. 1992. Washington, DC. (F/PR)

Recovery Plan for the Steller Sea Lion (*Eumetopias jubatus).* Prepared by the Steller Sea Lion Recovery Team for the National Marine Fisheries Service. 1992. Silver Spring, Maryland. 92 p. (F/PR)

Striped Bass Research Study Report for 1993. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1995. Silver Spring, Maryland. 34 p. (F/SF)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year	Accession No.
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
Year	Accession No.
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than *Fisheries of the United States.*

Year	Accession No.
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063

Year	Accession No.
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1989. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10-Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

IMPORTS AND EXPORTS OF FISHERY PRODUCTS:

Annual Summary:

Year	Accession No.
1982	PB-92-218635
1983	PB-92-218643
1984	PB-92-214972
1985	PB-92-222280
1986	PB-92-228196
1987	PB-92-228055
1988	PB-92-222272
1989	PB-92-222264
1990	PB-92-222256
1991	PB-92-221803
1992	PB-95-219499
1993	PB-95-219481
1994	PB-95-219507

MARINE RECREATIONAL FISHING:

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishing:

Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160.

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:

Atlantic and Gulf Coasts:

Year	Accession No.
1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701
1987-1989	PB-92-174820
1990-1991	(F/ST1)

Pacific Coast:

Year	Accession No.
1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS
1987-1989	(F/ST1)

PROCESSED FISHERY PRODUCTS:

Annual Summary:

Year	Accession No.
1979	PB-89-215248/AS
1980	PB-89-215255/AS
1981	PB-89-215263/AS
1982	PB-89-215289/AS
1883	PB-89-215271/AS
1984	PB-89-215297/AS
1985	PB-89-215305/AS
1986	PB-89-215313/AS
1987	PB-92-172956
1988	PB-92-204528/AS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.

Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546.

New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048

Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.

Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.

North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.

Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.

Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.

Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.

Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414/GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No.PB-98-123425/GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No.PB-98-123433/GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No.PB-98-123458/GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No.PB-98-123466/GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No.PB-98-123474/GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No .PB-98-123482/GBA).

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860/GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617/GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625/GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries.. 362 p. (NTIS No. PB-94-140878/GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658/GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666/GBA).

Other International Reports:

Available Foreign Fisheries Market Reports, 1976-1983. These lists detail available reports covering 59 countries and regions. (NTIS No. ITA-83-02-0l0/GBA).

Available Foreign Fishery Reports, 1984-1992. Covering the same information as the 1976-1983 report.

NORTHEAST REGION:

A History of Benthic Research in the NMFS Northeast Fisheries Science Center. Steimle, F.W., J.M. Burnett, and R.B. Theroux. 1995. *Mar. Fish. Rev.* 57(2):1-13. (F/NEC).

Expanding opportunities in ocean sciences: strengthening the links between HBMSCU [historically black and minority state colleges and universities] undergraduates and oceanic graduate studies: proceedings of a conference: +1-12 September 1995, Hampton University, Hampton, Virginia. Jearld, A., Jr., compiler and editor. 1996. *Northeast Fish. Sci. Cent. Ref. Doc.* 96-08. (F/NEC).

History of Salmon Fisheries and Management in the North Atlantic. Friedland, K.D. 1994. *ICES Coop. Res. Rep.* 197:6-22. (F/NEC).

Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 1996. Gibson, J.A. 1998. *Northeast Fish. Sci. Cent. Ref. Doc.* 97-13. (F/NEC).

Proceedings of the Symposium on the Potential for the Development of Aquaculture in Massachusetts: 15-17 February 1995, Chatham/ Edgartown/Dartmouth, Massachusetts. Castro, C.A., and S.J. Soares, editors. 1996. *NOAA Tech. Memo. NMFS* NE-109. (NTIS No. PB-97-103782).

Status of Fishery Resources off the Northeastern United States for 1995. Conservation and Utilization Division, Northeast Fisheries Science Center. 1995. *NOAA Tech. Memo. NMFS* NE-108. (NTIS No. PB-95-263414).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

National Marine Fisheries Service Guidelines for Proposed Wetland Alternation in the Southeastern United States. Habitat Conservation Division. Southeast Regional Office. March 1992. 17 p. (F/SER).

Summary of Federal Aid Grants and Cooperative Agreements Programs, National Marine Fisheries Service, Southeast Region, 1986-1995. Sutter, Frederick C. 1985. 112p. (F/SER)

SOUTHWEST REGION:

A Global Perspective on Artifical Reefs and Fish Aggregating Devices. In Indo-Pacific Fishery Commission (IPFC), Proceedings of the Symposium on Artificial Reefs and Fish Aggregating Devices as Tools for the Management and Enhancement of Marine Fishery Resources, Colombo, Sri Lanka, 14-17 May 1990. Regional Office for Asia and the Pacific (RAPA), Food and Agriculture Organization of the United States, Bandkok. (F/SWC).

Biodiversity and the Sustainability of Marine Fisheries. Boehlert, G. W. 1996. Oceanography 9(1): 28-35. (F/SWC).

Hawaii Longline Vessel Economics. Hamilton, M. S., R. E. Curtis, M. D. Travis.1996. Mar. Res. Econ. 11:137-140. (F/SWC)

Hawaiian Monk Seals: Past, Present and Future. Brownell, R. L., Jr. 1996. IBI Reports 6:35-41. (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1993. Johanos, T. C., and T. J. Ragen (eds.). 1996. 141 p. (NOAA-TM-NMFS-SWFSC-227). (F/SWC)

The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1994. Johanos, T. C., and T. J. Ragen. 1996. 111 p. (NOAA-TM-NMFS-SWFSC-229). (F/SWC)

Japan's Mackerel Market. Sonu, Sunee C., September 1992. (NOAA-TM-NMFS-SWR-027). (F/SWR).

The Japanese Market for U.S. Tuna Products. Sonu, Sunee C. 1994. (NOAA-TM-NMFS-SWR-029). 64 p. (F/SWR).

The Japanese Sablefish Market. Sonu, Sunee C. 1996. (NOAA-TM-NMFS-SWR-031). 52p. (F/SWR).

The Japanese Sea Urchin Market. Sonu, Sunee C. 1995. (NOAA-TM-NMFS-SWR-030). 33 p. (F/SWR).

The Japanese Swordfish Market. Sonu, Sunee C. 1997. (NOAA-TM-NMFS-SWR-032). 79 p. (F/SWR)

Private Property Rights and Crises in World Fisheries: Turning the Tide? Grafton, R. Q., D. Squires, and J. E. Kirkley. 1996. Contemp. Econ. Policy 14:91-99. (F/SWC)

NORTHWEST REGION:

Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Aerial and Ship-based Surveys of Steller Sea Lions (Eumetopias jubatus) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994. Strick, J. M., L. W. Fritz, and J. P. Lewis. 1997. (NOAA-TM-AFSC-71). 55 p. (NTIS No. PB97-144026).

Alaska Marine Mammal Stock Assessments, 1996. Hill, P. S., D. P. DeMaster, and R. J. Small. 1997. (NOAA-TM-AFSC-78). 150 p. (NTIS No. PB97-203277).

Assessment of the Status of Harbor Porpoise (*Phocoena phocoena*) in Oregon and Washington waters. Osmek, S., J. Calambokidis, J. Laake, P. Gearin, R. DeLong, J.

Scordino, S. Jeffries, and R. Brown. 1997. (NOAA-TM-AFSC-76). 46 p. (NTIS No. PB97-198436).

Data report: National Marine Fisheries Service Longline Surveys, 1991-96. Rutecki, T. L., M. F. Sigler, and H. H. Zenger Jr. 1997. (NOAA-TM-AFSC-83). 64 p. (NTIS No. PB98-108822).

Data Report: 1996 Gulf of Alaska Bottom Trawl Survey. Martin, M. H. 1997. (NOAA-TM-AFSC-82) 235 p. (NTIS No. PB98-103930).

Diversity and Abundance of Neustonic Zooplankton in the North Pacific Subarctic Frontal Zone. Ebberts, B. D., and B. L. Wing. 1997. (NOAA-TM-AFSC-70). 34 p. (NTIS No. PB97-138218).

Echo Integration-Trawl Survey of Pacific Whiting, Merluccius productus, off the West Coasts of the United States and Canada during July-September 1995. Wilson, C. D., and M. A. Guttormsen. 1997. (NOAA-TM-AFSC-74). 70 p. (NTIS No. PB97-174387).

Economic Status of the Groundfish Fisheries off Alaska, 1995. Kinoshita, R. K., A. Grieg, D. Colpo, and J.M. Terry. 1997. (NOAA-TM-AFSC-72). 91 p. (NTIS No. PB97-161269).

Field Studies of Steller Sea Lions (Eumetopias jubatus) at Marmot Island, Alaska, 1979 through 1994. Chumbley, K., J. Sease, M. Strick, and R. Towell. 1997. (NOAA-TM-AFSC-77). 99 p. (NTIS No. PB97-203376).

Ichthyoplankton in the Eastern Gulf of Alaska, May 1990. Wing, B. L., C. W. Derrah, and V. M. O'Connell. 1997. (NOAA-TM-AFSC-75). 42 p. (NTIS No. PB97-174379).

The 1995 Pacific West Coast upper Continental Slope Trawl Survey of Groundfish Resources off Southern Oregon and Northern California: Estimates of distribution Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-80). 110 p. (NTIS No. PB97-208920).

The 1996 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington and Oregon: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-81). 156 p. (NTIS No. PB97-208912).

Results of Trawl Surveys of Groundfish Resources of the West Coast Upper Continental Slope from 1989 to 1993. Lauth, R. R., M. E. Wilkins, and P. A. Raymore Jr. 1997. (NOAA-TM-AFSC-79). 342 p. (NTIS No. PB97-208904).

Suitability of Dry Bay, Southeastern Alaska, as Rearing Habitat for Juvenile Salmon. Celewycz, A. G., and A. C. Wertheimer. 1997. (NOAA-TM-AFSC-73). 19 p. (NTIS No. PB97-161343).

Fur Seal Investigations, 1994. Sinclair, E.H. (editor). 1996. (NOAA-TM-AFSC-69). 144 p. (NTIS No. PB97-129456).

Oregon, Washington, and Alaska Exports of Edible Fishery Products, 1994. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-63). 49 p. (NTIS No. PB96-183553).

Status of Pacific Salmon and Steelhead Escapements in Southern Alaska. Baker, T. T., A. C. Wertheimer, R. D. Burkett, R. Dunlap, D. M. Eggers, E. I. Fritts, A. J. Gharrett, R. A. Holmes, and R. L. Wilmot. 1996. *Fisheries* 21(10): 6-18. (F/AKC).

The Threatened Status of Steller Sea Lions, *Eumetopias jubatus*, Under the Endangered Species Act: Effects on Alaska Groundfish Fisheries Management. Fritz, L.W., R. C. Ferrero, and R.J. Berg. 1995. *Mar. Fish. Rev.* 57(2):14-27. (F/AKC).

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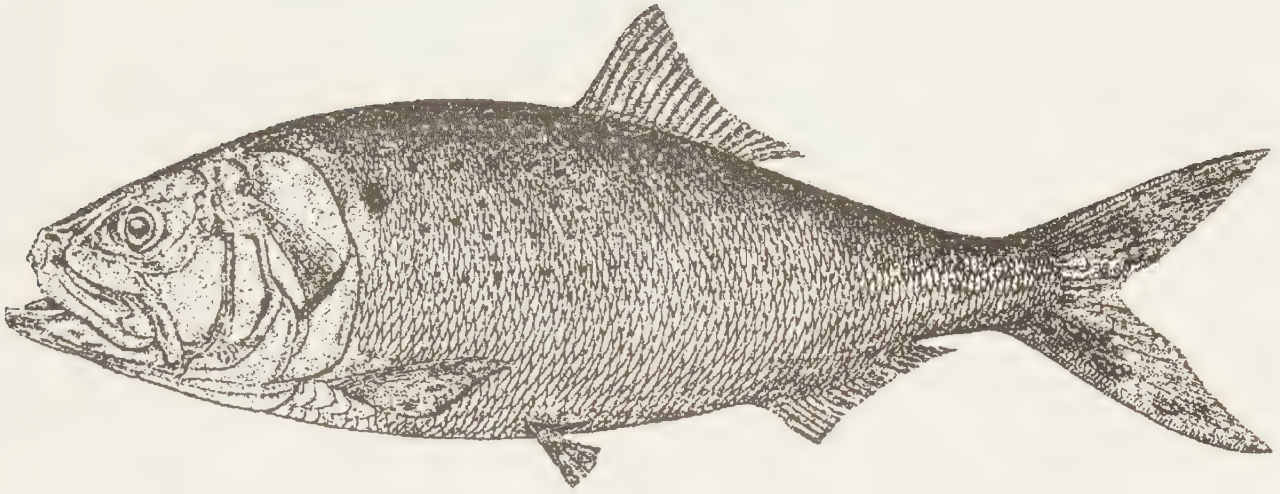

MENHADEN

Menhaden, also called pogy, shiner or bunker by fishermen, belong to the family Clupeidae and are related to herring, shad and sardine. They are small, pelagic fishes that often occur in large, dense schools of thousands of fish. There are four species of menhaden that occur along the U.S. Atlantic and Gulf coasts. The Atlantic menhaden (Brevoortia tyrannus) pictured above and the Gulf menhaden (B. patronus) are the principal species landed. Commercial fishermen locate schools of fish using spotters in airplanes and then capture them with purse seines. Menhaden, because of their high fat and oil content, are a valued industrial component of the U.S. commercial fishery.

About 2.0 billion pounds of menhaden valued at $112 million were landed by U.S. fishermen in 1997. Menhaden comprised about 21 percent of the total U.S. domestic landings and were second only to Alaska (walleye) pollock in the volume of fish landed. Small quantities of menhaden were sold for bait, but most harvested fish were cooked and rendered into meal, oil and solubles. These processed products were used in poultry and cattle feeds, fertilizers, paints, lubricants, plasticizers, and oils. Menhaden are also important as a forage fish for striped bass, tuna, bluefish, and other predators.

SERVICES

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FISHERIES MARKET NEWS

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The National Marine Fisheries Service (NMFS) has collected market information at principal U.S. ports for 60 years. In an effort to provide a continuing high level of service to the seafood community this information is now available through the NMFS Fax-on-Demand Service. Up-to-date information on various landings data, wholesale values, foreign trade, cold storage holdings, trade leads, and Japanese market are now just a phone call away. The cost to you is a phone call, the service is free. Please feel free in helping NMFS spread the word about the Fax-on-Demand Service.

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1	Menu Choices	
2	Commonly Used Abbreviations	
5*	Trade Leads	Friday
	NEW YORK: Leo Gaudin (212) 620-3405	
21*	Fulton Market Fresh Prices	Daily
22*	New York Frozen Prices	Friday
	BOSTON: Jack French (617) 223-8018	
30	Boston Lobster Prices	Daily (exc.Weds.)
31*	New England Auction	Daily
32*	Boston Frozen Market Prices	Wednesday
33	New England Auction Summary	Friday
34	New England Cold Storage	Friday
	NEW ORLEANS: Maggie Bourgeois (504) 589-6151	
41	Gulf Shrimp Landings by Area and Species	Monday
42	Ex-Vessel Gulf Fresh Shrimp Prices and Landings	Monday
43	Gulf Finfish and Shellfish Landings	Monday
44*	Fish Meal and Oil Prices	Thursday
45*	Shrimp Statistics	Monthly
	LONG BEACH: Patricia Donley (310) 980-4033	
52	San Pedro, CA Market Prices	Friday
53	Canned Tuna Import Quota Update	Friday
55	United States Tuna Cannery Receipts	Monthly
	SEATTLE: John Bishop (206) 526-6119	
61	Wholesale Canned Salmon Prices (West Coast)	Tuesday
62*	Wholesale Shellfish Prices (West Coast)	Tuesday
63	Preliminary Oregon Landings	Tuesday
64	Halibut & Sablefish Total IFQ Landings	Weekly
65	Groundfish: Gulf of Alaska - Preliminary Catch	Weekly
66	Bering Sea & Aleutians - Preliminary Catch	Weekly
67	Oregon Landings & Exvessel Price	Monthly
68	Washington Landings & Exvessel Price	Monthly
	NMFS HEADQUARTERS: William Uttley (301) 713-2328	
71*	National Cold Storage	Monthly
72	West Coast Cold Storage	Monthly
73	Foreign Trade of Selected Products	Monthly
74	Imports of Shrimp	Monthly
75	Imports of Frozen Fish Blocks	Monthly
76*	Fish Meal and Oil Production	Quarterly
77*	Purse-Seine Landings of Menhaden	Monthly
	JAPANESE DATA: Long Beach - Sunee C. Sonu (310) 980-4038	
81	Japanese Shrimp Imports	Monthly
82	Japanese Fishery Imports	Monthly
83	Japanese Fishery Exports	Monthly
84	Japanese Cold Storage Holdings	Monthly
85	Tokyo Wholesale Shrimp Prices	Bi-weekly
86	Tokyo Wholesale Prices	Bi-weekly
87	Fish Landings and Average Ex-vessel Prices	Monthly
88	Sales Volume and Average Wholesale Prices	Monthly

UPDATE SCHEDULES: 3:00 pm ET.

***NOTE**:--Accessible via (Internet) - http://www.st.nmfs.gov/st1

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FISHERIES MARKET NEWS

HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via Internet home pages. Please use the following address for **NMFS'** home page - **http://www.nmfs.gov** through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics and Economics - http://www.st.nmfs.gov/st1/. Describes commercial and recreational fisheries statistics data collection programs and provides access to: commercial landings data bases; Marine Recreational Fisheries Statistics Survey (MRFSS) data; fishery economics; cold storage data; Market News Reports; trade data; U.S. Coast Guard vessel documentation; and electronic copies of the publication "Fisheries of the United States."

Inspection Program- http://www.nmfs.gov/iss/issue.html. Provides information on the voluntary National Seafood Inspection Program, including the services offered in the US and foreign countries to harvesters, processors, distributors, importers/exporters, buyers, and retailers; list of approved fish establishments and products; fees and charges; policies for advertising services; and official inspection marks and certificates.

Protected Resources - http://nmfs.gov/tmcintyr/prot_res.html. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Sustainable Fisheries Act/Magnuson-Stevens Act - http://www.nmfs.gov/sfa.html. The Sustainable Fisheries Act of 1996 amended the Magnuson-Stevens Fishery Conservation and Management Act (MSFCM) (1976 et seq.). Provides electronic copies of both Acts, a legislative history and guide to the amendments to the Act, and a tracking system for Council and NMFS actions implementing the amendments. In addition, the MSFCM Act amendment actions requiring public comment are posted with completed research reports and other documents required by the Sustainable Fisheries Act.

Saltonstall-Kennedy Grant Program - http://www.nmfs.gov/sfweb/skhome.html. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Northeast Region - http://www.nero.nmfs.gov/doc/nero.html. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on northeast fisheries regulations, quota reports for specific species, multi-species preliminary statistics reports; scallop and multi-species days-at-sea activity reports; federal aid for MARFIN and SK grant programs; and links to other NOAA sites.

Northeast Fisheries Scientific Center - http://www.nefsc.nmfs.gov. Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - http://caldera.sero.nmfs.gov/. Provides information on regional Federal activities including: fisheries regulations, news releases and fisheries bulletins, fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

Southeast Fisheries Science Center - http://www.sefsc.noaa.gov/. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina to Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

NATIONAL MARINE FISHERIES SERVICE
FISHERIES MARKET NEWS

HOME PAGES

Alaska Region - http://www.fakr.noaa.gov/ Provides information on in season state of groundfish catch, statistics, information bulletins, regulations, maps, tables, and instructions. Sablefish and halibut individual fishing quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - http://www.afsc.noaa.gov/. Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research on current ecosystems. Provides stock assessment, cruise reports and schedules, educational materials, publication lists, and other online documents.

Northwest Region - http://www.nwr.noaa.gov/. Provides information on the region's activities, mission and responsibilities. It includes news releases, announcements, documents and Federal Register notices about fisheries management plans, public hearings, programs, regulations, Endangered Species Act listings and proposals, habitat conservation, and regional hydro power activities.

Northwest Fisheries Science Center - http://research.nwfsc.noaa.gov/nwfsc-homepage.html. Describes Center research, including status and recovery of endangered salmon and new hatchery-earing techniques; rapid-response analyzes of chemical pollution and harmful algae blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - http://swr.ucsd.edu. Described the mission and responsibilities of the regional office. Announcements of Federal Register notices on seasons, trip limits, quotas and other fishery management plan information. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings, cold storage and wholesale prices. Links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - http://swfsc.ucsd.edu. Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

BULLETIN BOARDS

Several National Marine Fisheries Service offices provide public access to electronic bulletin board services operating 24-hours a day to furnish the fishing industry with current information. Listed below are necessary facts needed to access these bulletin boards via a personal computer.

Northwest Region: The Northwest Regional Office service is available by dialing **206-526-6405** at 2400 baud, no parity, 8 data bits, 1 stop bit, full duplex. (The region plans to upgrade baud rate to 28.8 by January 1995.) Information is presented through a system of menus and displayed on-line. A variety of reports are included: current groundfish and salmon regulations; current entry program, limited entry groundfish permits; foreign trade news and data files; HACCP FDA information; Saltonstall / Kennedy Program; view your account; testing system; NMFS news and phone numbers; list of files or transfers; and miscellaneous information. For additional information contact John Bishop, 206-526-6119, at the Northwest Regional Office.

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GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded. etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT. Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.

USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6
1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)
Toll Free: 1-800-422-2750
Internet: http://seafood.ssp.nmfs.gov/lss/issue.html

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service, F/ST1
1315 East West Highway -
Silver Spring, MD 20910-3282

OFFICIAL BUSINESS